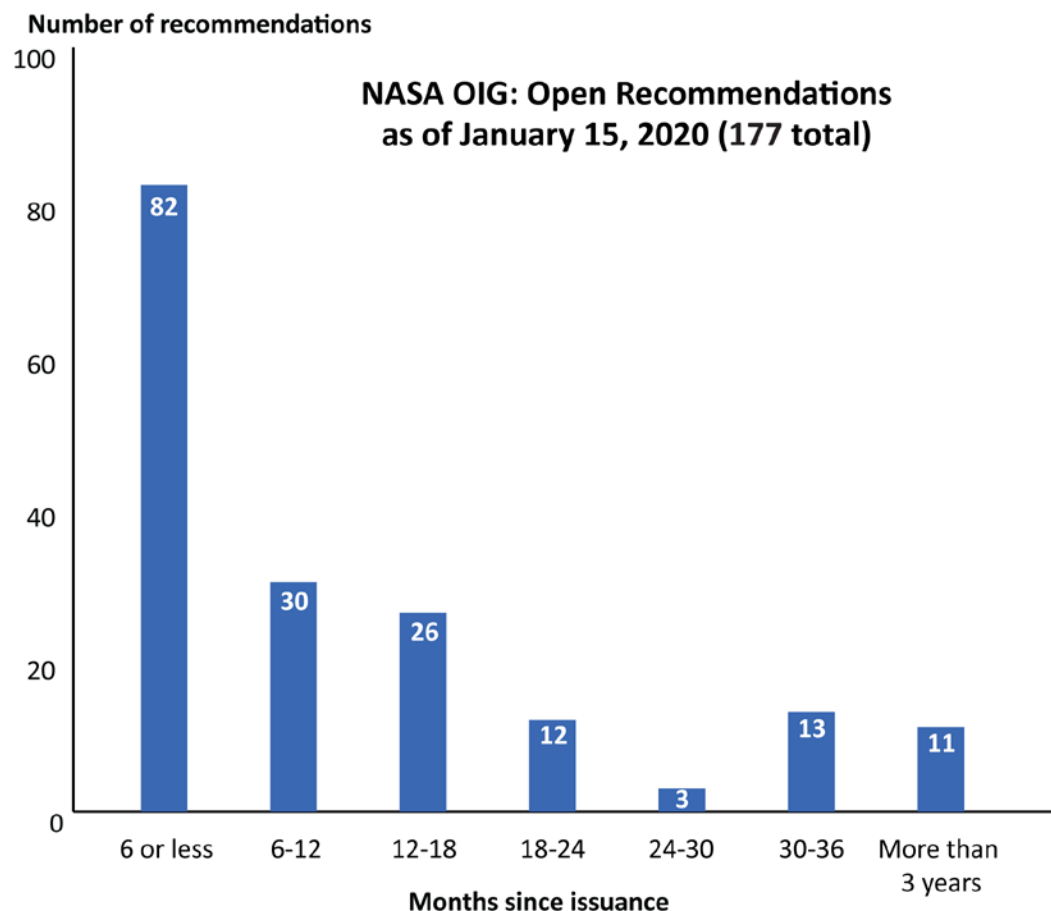


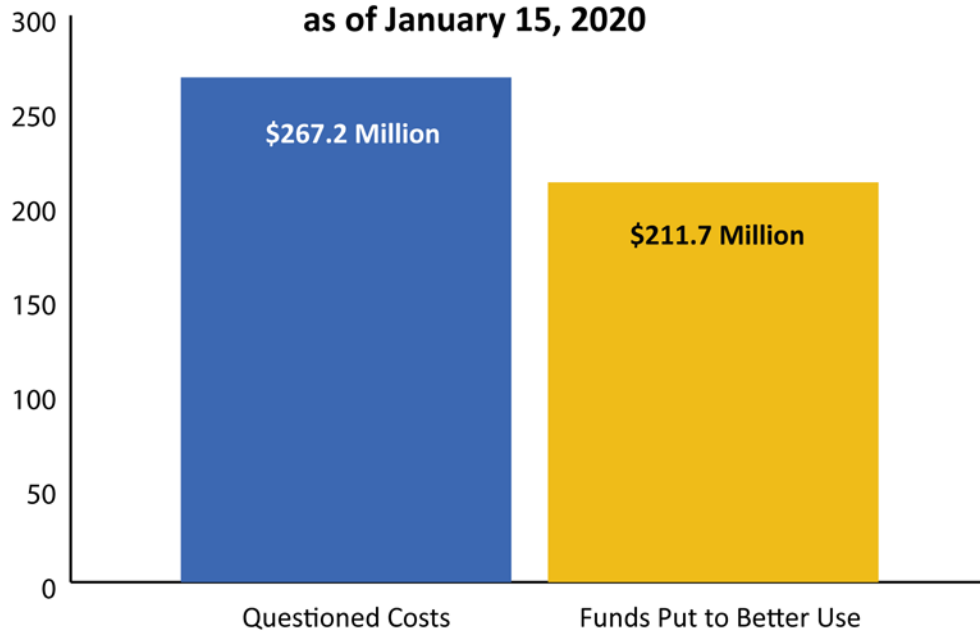
NASA Office of Inspector General

Open Recommendations as of January 15, 2020

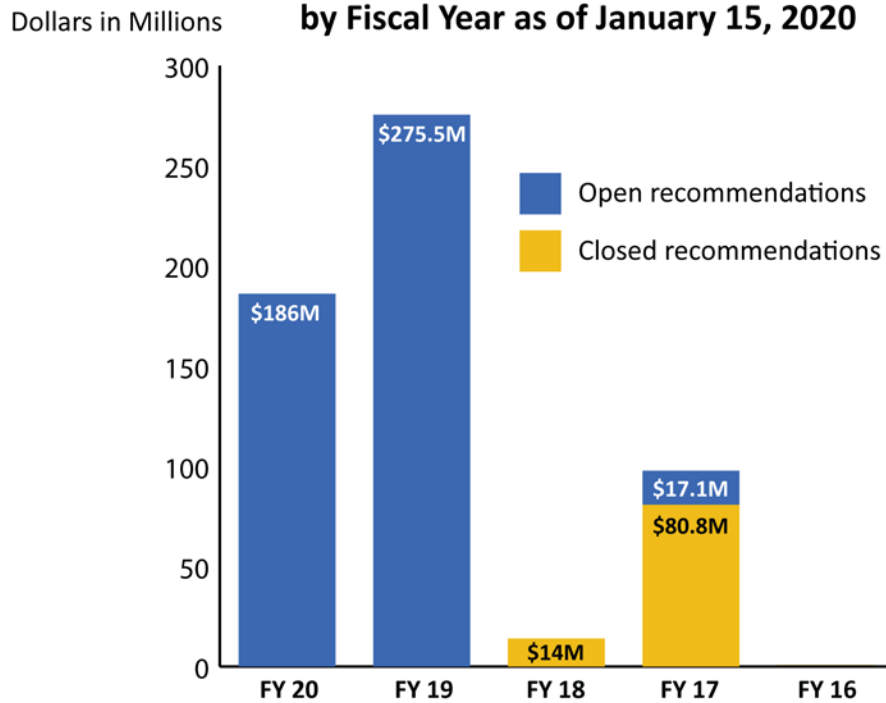
The National Aeronautics and Space Administration (NASA) Office of the Inspector General (OIG) makes recommendations to improve economy, efficiency, and effectiveness and to identify waste and mismanagement in NASA programs, projects, operations, and contractor activities. This report contains information about 177 recommendations that remained open as of January 15, 2020. Although NASA may have already taken steps to implement these recommendations, a recommendation is not considered closed until it has been fully implemented. Further, the status of open recommendations is subject to change as NASA continues its efforts to implement them and we review those efforts. Therefore, some recommendations identified as open in this report may have subsequently been closed.



NASA OIG: Monetary Value of Open Recommendations as of January 15, 2020

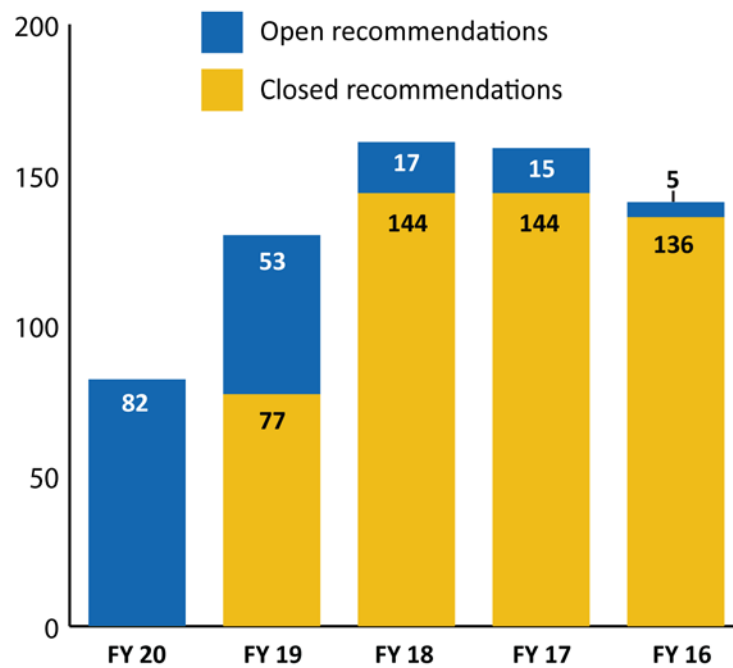


NASA OIG: Potential Savings by Fiscal Year as of January 15, 2020

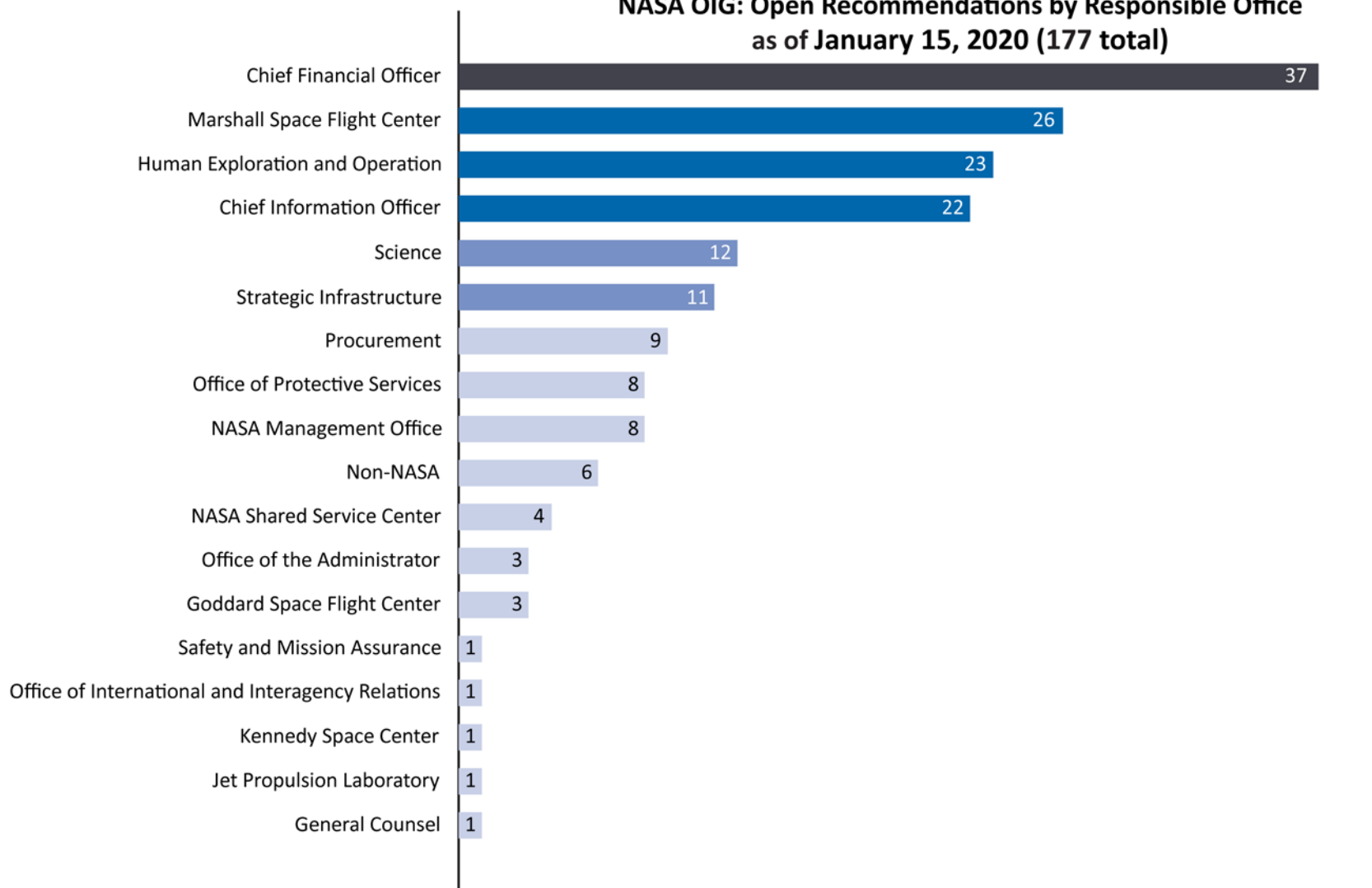


Note: For FY 16, the potential savings is \$322,500 for open recommendations and \$465,140 for closed recommendations.

NASA OIG: Recommendations per Fiscal Year as of January 15, 2020



**NASA OIG: Open Recommendations by Responsible Office
as of January 15, 2020 (177 total)**



NASA OFFICE OF THE INSPECTOR GENERAL – OPEN RECOMMENDATIONS (As of January 15, 2020)

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
1	11/15/19	Audit of NASA's Fiscal Year 2019 Financial Statements	IG-20-006	1	Improve the patch and vulnerability management program.	Chief Information Officer
2	11/15/19	Audit of NASA's Fiscal Year 2019 Financial Statements	IG-20-006	2	Eliminate configuration weaknesses.	Chief Information Officer
3	11/15/19	Audit of NASA's Fiscal Year 2019 Financial Statements	IG-20-006	3	Improve technical controls, including controls that monitor and control communications at the boundary of information systems.	Chief Information Officer
4	11/15/19	Audit of NASA's Fiscal Year 2019 Financial Statements	IG-20-006	4	Improve the scope and extent of segregation of duties monitoring controls.	Chief Information Officer
5	11/15/19	Audit of NASA's Fiscal Year 2019 Financial Statements	IG-20-006	5	Improve user administration controls, specifically around temporary elevated access and user access recertification.	Chief Information Officer
6	11/15/19	Audit of NASA's Fiscal Year 2019 Financial Statements	IG-20-006	6	Utilize available layers of application security controls to enhance the existing defense in depth approach.	Chief Information Officer
7	11/15/19	Audit of NASA's Fiscal Year 2019 Financial Statements	IG-20-006	7	Improve the scope and extent of financial system audit logging and review controls.	Chief Information Officer
8	11/14/19	NASA's Management of Crew Transportation to the International Space Station	IG-20-005	3	Initiate internal processes and coordinate with congressional and other stakeholders to obtain an extension of INKSNA exemptions.	Human Exploration and Operations
9	11/14/19	NASA's Management of Crew Transportation to the International Space Station	IG-20-005	4	Complete a contingency plan for delayed CCP delivery. In particular, work with Roscosmos to determine if the following or other actions are feasible, efficient, or necessary.	Human Exploration and Operations
10	11/14/19	NASA's Management of Crew Transportation to the International Space Station	IG-20-005	5	Continue to ensure the purchase of future commercial space services complies with government contracting regulations.	Human Exploration and Operations
11	11/7/19	Audit of NASA's Compliance with the Digital Accountability and Transparency Act for FY 2019	IG-20-004	1	Reinforce to contracting officers their responsibility to follow the FAR requirement to report procurement award data elements in FPDS-NG within three business days after contract award.	Procurement
12	11/7/19	Audit of NASA's Compliance with the Digital Accountability and Transparency Act for FY 2019	IG-20-004	2	Incorporate a procedure into the existing Verification and Validation process to verify that procurement data is entered into FPDS-NG within three business days after contract award.	Procurement

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
13	11/7/19	Audit of NASA's Compliance with the Digital Accountability and Transparency Act for FY 2019	IG-20-004	3	Correct the incomplete and inaccurate award data identified in this audit.	Procurement
14	11/7/19	Audit of NASA's Compliance with the Digital Accountability and Transparency Act for FY 2019	IG-20-004	4	Instruct contracting officers how to complete data fields in FPDS-NG that require manual input, such as the Current Total Value of Award and Potential Total Value of Award fields, and instruct contracting officers to verify that the data in FPDS-NG is consistent with the latest information in SAM when executing an award action.	Procurement
15	11/7/19	Audit of NASA's Compliance with the Digital Accountability and Transparency Act for FY 2019	IG-20-004	5	Incorporate the results of this audit as detailed in this report and specifically identified according to data elements in Appendixes B and C when executing the Agency's Data Quality Plan and determining high risk control areas in FY 2020.	Procurement
16	10/21/19	NASA's Security Management	IG-20-001	1	Establish and implement an enterprise-level governance structure to identify, assess, and prioritize protective services risks and deficiencies, and fund applicable countermeasure(s) to mitigate or formally accept risk.	Office of Protective Services
17	10/21/19	NASA's Security Management	IG-20-001	2	Standardize and streamline the facility security assessment process across the Agency to increase efficiency and inform decision making.	Office of Protective Services
18	10/21/19	NASA's Security Management	IG-20-001	3	Research federal arrest authority (as directed in the Protective Services BSA Decision Memorandum) in conjunction with the Office of the General Counsel, formulate a unified response, and implement a consistent policy across the Agency.	Office of Protective Services
19	10/21/19	NASA's Security Management	IG-20-001	4	Evaluate Agency-wide jurisdictions to determine if it is feasible for all Centers to be under the same jurisdiction or at least to determine if individual Centers should have all of their property under the same type of jurisdiction.	Office of Protective Services
20	10/21/19	NASA's Security Management	IG-20-001	5	Coordinate with the Office of the General Counsel to standardize the carrying of firearms by NASA civil servants in an Agency-wide policy while also addressing the appropriate situations when NASA contractors may carry their government-issued weapons off NASA property.	Office of Protective Services

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
21	10/21/19	NASA's Security Management	IG-20-001	6	In collaboration with the Office of Safety and Mission Assurance, evaluate fire services policies and functions Agency-wide, reconcile duties and responsibilities, and determine under which officeprotective services or safety and missionthese responsibilities should reside.	Office of Protective Services
22	10/21/19	NASA's Security Management	IG-20-001	7	Establish an Agency-wide policy on calculating protective services costs associated with tenant reimbursable expenses.	Office of Protective Services
23	10/21/19	NASA's Security Management	IG-20-001	8	Develop procedures that require Center protective services officials to be a stakeholder in the planning process to meet protective services requirements for existing and new tenants.	Office of Protective Services
24	6/18/19	JPL Network Security	IG-19-022	1	Require all system administrators to review and update the ITSDB to ensure all system components are properly registered in the database, and require the JPL CITO to periodically review the ITSDB for compliance with this requirement.	NASA Management Office
25	6/18/19	JPL Network Security	IG-19-022	2	Segregate shared environments connected to the network gateway for all partners accessing the JPL network and monitor partner activity when accessing the network.	NASA Management Office
26	6/18/19	JPL Network Security	IG-19-022	3	Review and update ISAs for all partners connected to the network gateway to ensure they are up-to-date and made available to the NASA OCIO.	NASA Management Office
27	6/18/19	JPL Network Security	IG-19-022	4	Require the JPL CITO to identify and remediate weaknesses in the SPL ticket process and provide periodic aging reports to the JPL CIO detailing the status of open SPL tickets, pending patches, and outdated security waivers.	NASA Management Office
28	6/18/19	JPL Network Security	IG-19-022	5	Require the JPL CITO to complete its validation and updates of open waivers, perform annual reviews to ensure system representatives are validating the need for the waiver, and provide NASA documentation of these waivers.	NASA Management Office
29	6/18/19	JPL Network Security	IG-19-022	6	Clarify the division of responsibility between the JPL OCIO and system administrators for conducting routine log reviews and monitor their compliance with this requirement on a more frequent basis.	NASA Management Office
30	6/18/19	JPL Network Security	IG-19-022	8	Establish a formal, documented threat-hunting process that includes roles and responsibilities, standard processes for conducting a hunt, and metrics to track success.	NASA Management Office

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
31	6/18/19	JPL Network Security	IG-19-022	9	Develop and implement a comprehensive strategy for institutional IT knowledge and incident management that includes the dissemination of lessons learned to system administrators and other appropriate personnel.	NASA Management Office
32	6/18/19	JPL Network Security	IG-19-022	10	Include requirements in the pending IT Transition Plan for implementation of continuous monitoring tools that provide the NASA SOC with oversight of JPL network security practices to ensure they adequately protect NASA data, systems, and applications.	Chief Information Officer
33	6/3/19	NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2018	IG-19-020	1	Revise existing policies and procedures for reporting overpayments identified and recaptured from sources outside of the payment recapture audit by documenting the processes developed to gather, track, and report improper payments recaptured through credits on future billings and sustained questioned direct costs from post-award audits.	Chief Financial Officer
34	6/3/19	NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2018	IG-19-020	2	Provide training to those organizations or individuals responsible for reporting overpayments from future billing credits and sustained questioned direct costs from post-award audits to ensure they are aware of NASA's reporting requirements and their responsibility for tracking the information and communicating it to OCFO, including specific details of the information to be reported and the format it should be reported.	Chief Financial Officer
35	6/3/19	NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2018	IG-19-020	3	Enhance the annual payment recapture training provided to Centers with a focus on what constitutes an improper payment and how to improve the accuracy of their reporting, to include, but not limited to: a. definition of an improper payment, b. sufficiency of explanations for transactions excluded from reporting, c. types of overpayments experienced and whether the Centers consider the transactions reportable, and d. specific transactions that appear often in the system query and treatment.	Chief Financial Officer
36	5/29/19	Management of NASA's Europa Mission	IG-19-019	1	Evaluate current and future critical technical staffing requirements by project over the next 5 years. Assess each Center's ability to provide needed technical staff in critical skills based on projected surplus or shortfall of personnel for current and prospective projects.	Science

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
37	5/29/19	Management of NASA's Europa Mission	IG-19-019	3	Evaluate the impact on the entire Planetary Science Division budget portfolio if Clipper's increased funding levels were disrupted and develop mitigation strategies.	Science
38	5/29/19	Management of NASA's Europa Mission	IG-19-019	4	Continue to implement the instrument cost control plan, including de-scope options, based on balancing cost and Level 1 science requirements for future missions. Include the de-scope option in JCL calculations based on an assessment of the projects' Science Traceability and Alignment Framework.	Science
39	5/29/19	Management of NASA's Europa Mission	IG-19-019	5	Reassess the Europa Lander prospective project timeline given resource availability, including the SLS Block 1B with the EUS and the inherent project complexities of this magnitude.	Science
40	5/29/19	Management of NASA's Europa Mission	IG-19-019	6	Evaluate the impact that starting Lander Phase-A, delaying the start date, or continuing Pre-phase A research under multiple funding scenarios would have on the entire Planetary Science Division portfolio and report those estimates to stakeholders.	Science
41	5/29/19	Management of NASA's Europa Mission	IG-19-019	7	Consider requesting the NRC (now the National Academies of Sciences, Engineering, and Medicine) reexamine the Lander's priority under authority in the NASA Authorization Act of 2008.	Science
42	5/29/19	Management of NASA's Europa Mission	IG-19-019	8	Coordinate with Congress and other stakeholders to develop achievable project timelines and corresponding funding levels to maintain a balanced science portfolio supportive of NRC priorities.	Science
43	5/29/19	Management of NASA's Europa Mission	IG-19-019	9	Reassess the process of isolating key project personnel from instrument selection to balance their additional insight in integration and cost estimation while maintaining fairness in the announcement and mitigating conflicts of interest risks.	Science
44	5/29/19	Management of NASA's Europa Mission	IG-19-019	10	Evaluate current and future critical technical staffing requirements, make staffing adjustments to the Clipper project as necessary, and reassess Lander commitments.	Jet Propulsion Laboratory
45	5/7/19	NASA's Heliophysics Portfolio	IG-19-018	2	Complete implementation of 2015 NSWAP tasks in accordance with SWORM subcommittee deadlines.	Science
46	5/7/19	NASA's Heliophysics Portfolio	IG-19-018	3	Reassess HPD's capabilities and resources and update the 2014 Roadmap for implementing 2013 Decadal recommendations with expected completion dates based on the Division's updated budget and priorities over the next 5 years.	Science

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
47	5/7/19	NASA's Heliophysics Portfolio	IG-19-018	4	Establish a formal mechanism to increase collaboration with DOD and the commercial space industry regarding heliophysics research and space weather modeling and forecasting efforts.	Science
48	4/15/19	NASA's Technology Transfer Process	IG-19-016	3	Make needed changes in Goddard's technology transfer processes or personnel to improve the Center's overall performance.	Goddard Space Flight Center
49	3/26/19	Service Contracts	IG-19-014	1	Develop an Agency-wide standardized set of metrics for contracts that can be collected, tracked, and analyzed over time to identify efficiencies resulting from a change in contract structure.	Procurement
50	3/26/19	Service Contracts	IG-19-014	2	Require Center Procurement Offices to formally collect, track, and report data to the Headquarters Office of Procurement on these metrics at least annually.	Procurement
51	3/26/19	Service Contracts	IG-19-014	3	Develop a community of practice to analyze what contract structure changes lead to the greatest efficiencies and to share these lessons learned with the Agency's procurement community.	Procurement
52	3/19/19	NASA's Progress with Environmental Remediation Activities of the Santa Susana Field Laboratory	IG-19-013	1	Pursue all available optionsadministrative, legal, or politicalto ensure NASA's SSFL soil cleanup is performed in an environmentally and financially responsible manner based on the intended future use of the property.	Marshall Space Flight Center
53	3/19/19	NASA's Progress with Environmental Remediation Activities of the Santa Susana Field Laboratory	IG-19-013	2	Decide whether to preserve or demolish the remaining six test stands and related structures before soil remediation begins and take action on that decision.	Marshall Space Flight Center
54	11/28/18	NASA's ETDY Travel	IG-19-007	1	Review the ETDY travel authorization and lodging costs after the first 30 days of ETDY travel to validate, adjust, and update, if necessary, the authorized lodging reimbursements to more closely match actual lodging expensesbut not to exceed the 65 percent maximum per diem rate.	Chief Financial Officer
55	11/28/18	NASA's ETDY Travel	IG-19-007	2	Revise NASA policy to explicitly state that actual lodging costs will be reviewed after the first 30 days of ETDY travel and authorizations adjusted, if needed.	Chief Financial Officer

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
56	11/28/18	NASA's ETDY Travel	IG-19-007	3	Include in all ETDY travel authorizations a statement that lodging costs will be reviewed after the first 30 days of ETDY travel with the corresponding authorized reimbursements adjusted to more closely match actual lodging expenses but not to exceed the 65 percent maximum per diem rate.	Chief Financial Officer
57	10/22/18	NASA's Management of Historic Property	IG-19-002	1	Develop a process to more effectively identify, validate ownership of, and coordinate within NASA and/or with other agencies on recovery of historic property.	General Counsel
58	10/22/18	NASA's Management of Historic Property	IG-19-002	2	Develop comprehensive procedures for identifying and managing heritage assets, including defining roles and responsibilities for the different NASA entities responsible for evaluating what historic items would most effectively be maintained by the Agency and considered as heritage assets.	Strategic Infrastructure
59	10/22/18	NASA's Management of Historic Property	IG-19-002	3	Evaluate and justify the existing list of NASA and contractor held heritage assets to determine whether NASA is the most effective owner and what property the Agency will retain because of its historical value.	Strategic Infrastructure
60	10/22/18	NASA's Management of Historic Property	IG-19-002	4	Ensure agreements are signed, appropriately updated, and include all necessary loan terms, including a security plan developed by the borrower and reviewed by the Center's Office of Protective Services prior to property transfer.	Kennedy Space Center
61	10/22/18	NASA's Management of Historic Property	IG-19-002	5	Ensure NASA policy and procedures for using the proceeds from facilities leased under NHPA authority appropriately aligns with Agency goals to minimize excess facilities.	Strategic Infrastructure
62	10/10/18	NASA's Management of the Boeing Space Launch System Stages Contract	IG-19-001	2	Direct Boeing to complete delivery of the two Core Stages and the EUS using an Earned Value Management System with realistic schedule assumptions and appropriate cost estimates through the end of the contract in 2021.	Human Exploration and Operations
63	10/10/18	NASA's Management of the Boeing Space Launch System Stages Contract	IG-19-001	3	Complete a review of the Boeing Stages contract that includes an independent federal government cost estimate to confirm the funding amounts needed to complete all deliverables.	Human Exploration and Operations
64	10/10/18	NASA's Management of the Boeing Space Launch System Stages Contract	IG-19-001	4	Renegotiate the Boeing Stages contract based on both Boeing and federal government cost estimates.	Human Exploration and Operations
65	10/10/18	NASA's Management of the Boeing Space Launch System Stages Contract	IG-19-001	04a	Separate each deliverable (Core Stage 1, Core Stage 2, and EUS) into its own CLIN for tracking costs, performance, and award fees.	Human Exploration and Operations

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
66	10/10/18	NASA's Management of the Boeing Space Launch System Stages Contract	IG-19-001	04b	Remove the system integration award fee structure and capping potential award fees at 12.5 percent of estimated costs.	Human Exploration and Operations
67	10/10/18	NASA's Management of the Boeing Space Launch System Stages Contract	IG-19-001	04c	Determine the amount of cost overruns to date and ensuring no future fees are paid on this amount.	Human Exploration and Operations
68	10/10/18	NASA's Management of the Boeing Space Launch System Stages Contract	IG-19-001	04d	Reduce the performance evaluation period to 6 months with interim reports at 3 months.	Human Exploration and Operations
69	10/10/18	NASA's Management of the Boeing Space Launch System Stages Contract	IG-19-001	04e	Remove provisional performance award fee payments to reflect the current contractor's performance.	Human Exploration and Operations
70	10/10/18	NASA's Management of the Boeing Space Launch System Stages Contract	IG-19-001	7	Implement, by October 2018, an acquisition strategy for building Core Stages beyond Core Stage 2 for future missions that includes consideration for awarding the contract as a fixed-price, end-item deliverable contract with each Core Stage separated into unique task orders with specific performance milestones.	Human Exploration and Operations
71	7/30/18	NASA's Efforts to Complete ISS Research to Enable Long-Duration Human Space Flight and Plans for the Station's Future Disposition	IG-18-021	3	Ensure there is a contingency plan for each exploration-enabling technology demonstration not scheduled to be fully tested by 2024, such as: a. Identification of alternate testing platforms, b. Impact to technical risk of exploration systems, and c. Impact to the technology demonstration schedule.	Human Exploration and Operations
72	7/30/18	NASA's Efforts to Complete ISS Research to Enable Long-Duration Human Space Flight and Plans for the Station's Future Disposition	IG-18-021	4	Complete all end-of-mission critical systems and open work related to nominal and contingency deorbit operations.	Human Exploration and Operations
73	7/30/18	NASA's Efforts to Complete ISS Research to Enable Long-Duration Human Space Flight and Plans for the Station's Future Disposition	IG-18-021	5	Develop options for obtaining supplemental emergency deorbit propellant support from U.S. commercial vehicles.	Human Exploration and Operations
74	5/24/18	Audit of NASA's Information Technology Supply Chain Risk Management Efforts	IG-18-019	2	Ensure NASA's assessed and cleared listing (ACL) is updated weekly and that it contains a selection of cleared IT and communications products and services sufficient to meet Agency needs.	Chief Information Officer

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
75	5/24/18	Audit of NASA's Information Technology Supply Chain Risk Management Efforts	IG-18-019	7	Direct all NASA Centers, Mission Directorates, and Program/Project Offices to review and strengthen their current supply chain risk management efforts to ensure only assessed and cleared IT and communications products and services enter the Agency's supply chain.	Chief Information Officer
76	5/23/18	Audit of NASA's Security Operations Center	IG-18-020	1	Develop a charter and set of authorities signed by the NASA constituent executives (including the NASA Administrator) that addresses the SOC's organizational placement, purpose, authority, and responsibilities.	Chief Information Officer
77	5/23/18	Audit of NASA's Security Operations Center	IG-18-020	2	Establish Operational Level Agreements with NASA Centers, Mission Directorates, the Communications Services Office, the End User Services Office, the Agency Applications Office, and Web Services Office to clearly define incident response roles and responsibilities, ensure data storage and sharing needs are addressed, and opportunities to leverage economies of scale are identified and acted upon in support of Agency cybersecurity goals.	Chief Information Officer
78	5/23/18	Audit of NASA's Security Operations Center	IG-18-020	6	Identify and reduce unnecessary duplication of the incident monitoring, detection, and response capabilities, including toolsets and competencies available Agency-wide to enhance the capabilities and resources of the SOC and realize efficiencies in the management of these capabilities.	Chief Information Officer
79	5/14/18	NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2017	IG-18-017	1	Implement a procedure to use information regarding known improper payments, including the latest available data used for payment recapture reporting, when performing the annual risk assessment.	Chief Financial Officer
80	5/14/18	NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2017	IG-18-017	2	Revise the existing risk assessment process by considering improper payments from prior years identified in external reports reviewed in the assessment year to determine program susceptibility to significant improper payments.	Chief Financial Officer
81	5/14/18	NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2017	IG-18-017	3	Develop a process for tracking overpayments identified and subsequently recovered through reductions in future billings on existing contracts such as contract credits.	Chief Financial Officer
82	4/26/18	NASA's Management of ISS Commercial Resupply Services Contracts	IG-18-016	5	Ensure the ISS Program decides by January 2020 whether to compete task orders beyond the minimum guarantee of six for each contractor through the existing IDIQ contract or through the On-Ramp clause.	Human Exploration and Operations

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
83	4/5/18	NASA's Management of the Goddard Institute for Space Studies and Related Activities	IG-18-015	4	Hire a senior administrator to serve as a Deputy Chief of GISS for Administration to manage the Institute's grants, cooperative agreements, personnel, and procurement actions.	Goddard Space Flight Center
84	4/5/18	NASA's Management of the Goddard Institute for Space Studies and Related Activities	IG-18-015	8	To the extent practicable, implement the GAO's best practices for establishing partnerships, including the formalization of agreements that outline the roles and responsibilities of each agency in the performance and application of climate research performed at GISS.	Office of International and Interagency Relations
85	2/28/18	Review of NASA's Purchase and Travel Charge Card Programs	IG-18-014	1	Establish a procedure, which may be risk-based, to monitor whether travelers are using their travel cards for all official travel expenses. Possible options include, but are not limited to: (a) modifying NSSC's existing pre- and post-payment procedures performed on travel vouchers and (b) instructing CAPCs to include this review as part of their oversight responsibilities.	Chief Financial Officer
86	10/5/17	NASA's Management of Spare Parts for its Flight Projects	IG-18-001	3	Develop a standardized cataloging process for OSCAR to ensure NASA program and project officials can effectively identify and reserve compatible flight inventory.	Strategic Infrastructure
87	10/5/17	NASA's Management of Spare Parts for its Flight Projects	IG-18-001	5	Work with Center logistics officials to develop alternative approaches to ensure Centers can meet the requirement to conduct complete reviews of spare parts inventories every 5 years.	Strategic Infrastructure
88	9/18/17	NASA's Research Efforts and Management of Unmanned Aircraft Systems	IG-17-025	2	Create or incorporate into existing policy criteria for defining the UAS subject to acquisition and tracking requirements, distinguishing an aerial drone from a collection of spare parts, and the criteria Centers should use for determining the number of UAS spare parts to maintain.	Strategic Infrastructure
89	5/17/17	Audit of the Construction of Test Stands 4693 and 4697 at Marshall Space Flight Center	IG-17-021	1	Perform a comprehensive review of Program-funded construction projects to ensure adequate analysis, including all life cycle costs, is completed prior to project initiation.	Strategic Infrastructure
90	5/17/17	Audit of the Construction of Test Stands 4693 and 4697 at Marshall Space Flight Center	IG-17-021	2	Develop additional construction project guidance for establishing unallocated construction reserves for program-direct construction facility projects to better account for significant expected risks.	Strategic Infrastructure

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
91	5/17/17	Audit of the Construction of Test Stands 4693 and 4697 at Marshall Space Flight Center	IG-17-021	3	Ensure facility needs, such as construction of new facilities and/or modification of existing facilities, are appropriately included in program planning and scheduling and that testing requirements are adequately understood prior to committing the Agency to construction or modification of test facilities.	Human Exploration and Operations
92	5/15/17	NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2016	IG-17-020	3	Revisit the description of the scoring criteria for all risk factors, particularly the risk factors under the External Monitoring and Materiality of Disbursements risk conditions, to ensure the criteria for each level is a fair representation of the risk.	Chief Financial Officer
93	4/13/17	NASA's Plans for Human Exploration Beyond Low-Earth Orbit	IG-17-017	4	Include cost as a factor in NASA's Journey to Mars feasibility studies when assessing various missions and systems.	Human Exploration and Operations
94	3/9/17	NASA's Management of Electromagnetic Spectrum	IG-17-012	2	Incorporate the Spectrum Guidance for NASA Small Satellite Missions into formal NASA electromagnetic spectrum policies NPD 2570.5E, NASA Electromagnetic Spectrum Management - Revalidated 9/13/16, and NPR 2570.1C, NASA Radio Frequency Electromagnetic Spectrum Management Manual.	Human Exploration and Operations
95	2/8/17	Audit of Industrial Control System Security over NASA's Critical Infrastructure.	IG-17-011	3	Ensure OCIO and OSI representatives are included in functional reviews of NASA's critical infrastructure assets and facility security assessments so that cyber and facility interdependencies are addressed appropriately.	Office of the Administrator
96	2/8/17	Audit of Industrial Control System Security over NASA's Critical Infrastructure.	IG-17-011	4	Coordinate the development of a methodology for the identification and protection of interdependencies (either within the facility security assessment or facility security level designation process).	Office of the Administrator
97	2/8/17	Audit of Industrial Control System Security over NASA's Critical Infrastructure.	IG-17-011	5	Develop security policy based on NIST Special Publication (SP) 800-53, Revision 4, and NIST SP 800-82 guidance for managing the protection of OT within the mission and institutional directorates.	Office of the Administrator
98	2/7/17	Audit of Information Security Controls over NASA's Cloud Computing Services	IG-17-010	1	Monitor adherence to the requirement that only approved cloud computing services on NASA's cloud services registry be used to transmit, process, and store NASA data and block access on NASA networks to unapproved services that do not have an authorization to operate and established IT system security plans.	Chief Information Officer

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99	2/7/17	Audit of Information Security Controls over NASA's Cloud Computing Services	IG-17-010	2	Ensure NASA personnel at Agency Centers, Mission Directorates, and Program and Project Offices coordinate acquisition of any cloud computing service through CSPO to ensure cloud services are properly accounted for on the Agency's cloud services registry and that all recommended FedRAMP contract provisions are incorporated into the acquisition.	Chief Information Officer
100	2/7/17	Audit of Information Security Controls over NASA's Cloud Computing Services	IG-17-010	4	Ensure all approved cloud services are registered with FedRAMP and are FedRAMP compliant.	Chief Information Officer
101	2/7/17	Audit of Information Security Controls over NASA's Cloud Computing Services	IG-17-010	6	Direct all NASA Centers, Mission Directorates, and Program and Project Offices to review their current cloud computing services and take steps necessary to ensure that existing services meet FedRAMP requirements.	Chief Information Officer
102	11/2/16	NASA's Portfolio of Earth Science Missions	IG-17-003	1	Update the Architecture Plan every 5 years to align with the release of Earth Science Decadal Surveys and mid-term Surveys and account for portfolio changes.	Science
103	6/28/16	NASA's Response to SpaceX's June 2015 Launch Failure: Impacts on Commercials Resupply of the International Space Station	IG-16-025	6	Update NPR 8621.1B to include commercial space launches with NASA payloads in official mishap policies. a. define commercial space launches with NASA payloads; b. determine the extent to which official NASA mishap policies apply in commercial space launches with NASA payloads; c. describe what types of investigations may occur and the processes to be followed in lieu of an Official MIB...; and d. clarify the scope and purpose of each investigation, such as a NASA defined root cause.	Safety & Mission Assurance
104	5/12/16	NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2015	IG-16-021	5	Obtain management decision letters issued by contracting officers to identify potential overpayments and report any overpayments determined to be improper in the AFR as overpayments identified from outside of payment recapture audits.	Chief Financial Officer
105	3/28/16	Audit of the Spaceport Command and Control System	IG-16-015	1	Commission an independent assessment to evaluate the status of the SCCS software development effort and determine the necessary steps to reduce the risk of further cost, schedule, and performance issues, including consideration of acquiring commercial command and control software to replace some or all of the system currently under development.	Human Exploration and Operations

Row no.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
106	3/17/16	NASA's Management of the Near Earth Network	IG-16-014	7	Ensure that malware protections are functioning as intended on applicable Network components.	Goddard Space Flight Center
107	2/18/16	Audit of NASA Space Grant Awarded to the University of Texas at Austin	IG-16-013	3	Establish policies and procedures as part of the NASA Grant and Cooperative Agreement Manual to periodically review a recipient's actual cost match and document award requirements are met prior to obligating the next increment of funding.	Chief Financial Officer
108	9/17/15	NASA's Response to Orbital's 2014 Launch Failure: Impacts on Commercial Resupply of the International Space Station	IG-15-023	7	Consider whether contract provisions relating to the boards should be revised to more closely align with NASA Mishap Investigation Board procedures (NASA Procedural Requirements 8621.1B, Chapter 4).	Human Exploration and Operations
109	5/15/15	NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2014	IG-15-015	5	Include cost-type contract payments in the Agency's recapture audit efforts. If NASA determines this proposal is not cost-effective, the CFO should document its justification for excluding these payments, including demonstrating that costs associated with recovering the funds are projected to be greater than the amount recovered.	Chief Financial Officer

Note: This table omits 68 recommendations that NASA determined to be classified or sensitive and are therefore unsuitable for public release.

RECENTLY CLOSED RECOMMENDATIONS

Row No.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
1	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	1	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
2	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	2	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
3	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	3	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
4	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	4	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
5	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	5	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
6	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	6	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
7	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	7	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
8	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	8	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
9	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	9	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
10	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	10	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
11	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	11	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
12	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	12	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer

Row No.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
13	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	13	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
14	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	14	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
15	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	15	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
16	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	16	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
17	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	17	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
18	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	18	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
19	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	19	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
20	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	20	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
21	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	21	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
22	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	22	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
23	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	23	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Procurement
24	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	24	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Procurement
25	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	25	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer

Row No.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
26	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	26	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
27	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	27	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
28	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	28	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
29	12/12/18	FY 2018 Financial Statement Audit - Financial Management Letter	IG-19-010	29	NASA determined that this recommendation was classified or sensitive and was therefore unsuitable for public release.	Chief Financial Officer
30	3/29/17	Parts Quality Processes	IG-17-016	3	Identify supplier performance information of common interest and modify SAS data structure to accommodate such information.	Safety & Mission Assurance
31	3/29/17	Parts Quality Processes	IG-17-016	8	Review a representative sample of PQASPs to identify deficiencies and best practices and revise policy as needed to include quantification and documentation of nonconformance and control risks for ensuring surveillance activities and resources are commensurate with part criticality and overall accepted project risk.	Safety & Mission Assurance
32	1/17/18	SWOT	IG-18-011	6	Require all SRBs to explicitly monitor and document variances from NASAs JCL policy specifically regarding international partners and launch vehicle risks and their potential cost and schedule impacts.	Science
33	5/7/19	NASA's Heliophysics Portfolio	IG-19-018	1	Require that all JCL analyses include all discrete development risks managed outside of the projectsuch as a projects launch vehiclewith potential cost and/or schedule impacts.	Science
34	4/15/19	NASA's Technology Transfer Process	IG-19-016	2	Complete implementation of the two-party authentication system as soon as possible to minimize instances of offices bypassing patenting process requirements.	Space Technology Mission Directorate

Row No.	Issue Date	Report Title	Report no.	Rec no.	Recommendation	Responsible Office
35	6/28/16	NASA's Response to SpaceX's June 2015 Launch Failure: Impacts on Commercials Resupply of the International Space Station	IG-16-025	5	Improve coordination with other Federal agencies involved in commercial space. a. creating a formal MOU with the FAA, NTSB, and USAF to coordinate accident investigations; b. coordinating with other Federal agencies to determine the hierarchy and roles of different investigation authorities during all phases of commercial launches with NASA payloads; and c. communicating investigation findings and corrective actions to all interested Federal agencies to allow full and informed decisions.	Safety & Mission Assurance