NASA Office of Inspector General Open Recommendations as of March 16, 2022

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 144 recommendations that remained open as of March 16, 2022. 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 OFFICE OF THE INSPECTOR GENERAL – OPEN RECOMMENDATIONS as of March 16, 2022

Row	Issue Date	Report Title	Report no.	Recommendation	Responsible Office
no.					
1	11/2/2016	NASA's Management of the Earth Science Portfolio	IG-17-003	1. Update Architecture Plan Every 5 Years	Science
2	3/9/2017	NASA's Management of Electromagnetic Spectrum	IG-17-012	2. Incorporate SmallSat Guidance into NPD 2570.5 and NPR 2570.1	Human Exploration and Operations
3	5/17/2017	Audit of the Construction of Test Stands 4693 and 4697 at Marshall Space Flight Center	IG-17-021	2. Develop additional construction project guidance	Strategic Infrastructure
4	5/17/2017	Audit of the Construction of Test Stands 4693 and 4697 at Marshall Space Flight Center	IG-17-021	Perform comprehensive review of program-funded construction projects	Strategic Infrastructure
5	5/17/2017	Audit of the Construction of Test Stands 4693 and 4697 at Marshall Space Flight Center	IG-17-021	3. Ensure facility needs are included in program planning and scheduling	Human Exploration and Operations
6	4/5/2018	NASA's Management of Goddard Institute for Space Studies and Related Activities	IG-18-015	8. Implement Partnership Best Practices	International and Interagency Relations
7	5/14/2018	Audit of NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2017	IG-18-017	3. Develop Process for Tracking Overpayments Identified but Recovered through Contract Credits	Chief Financial Officer
8	10/22/2018	Audit of NASA's Historic Property Management	IG-19-002	Develop Comprehensive Procedures for Identifying and Managing Heritage Assets	Strategic Infrastructure
9	10/22/2018	Audit of NASA's Historic Property Management	IG-19-002	3. Evaluate and Justify Existing List of Heritage Assets	Strategic Infrastructure
10	10/22/2018	Audit of NASA's Historic Property Management	IG-19-002	5. Ensure Policy for Using Proceeds Aligns with Agency Goals	Strategic Infrastructure
11	3/26/2019	Audit of NASA's Service Contracts	IG-19-014	3. Analyze and Share Lessons Learned Efficiencies	Procurement
12	3/26/2019	Audit of NASA's Service Contracts	IG-19-014	Develop Standardized Set of Metrics	Procurement
13	3/26/2019	Audit of NASA's Service Contracts	IG-19-014	2. Require Procurement to Report Data	Procurement
14	5/7/2019	NASA's Management of the Heliophysics Portfolio	IG-19-018	2. Implement National Space Weather Action Plan Tasks	Science
15	5/7/2019	NASA's Management of the Heliophysics Portfolio	IG-19-018	3. Reassess HPD's Capabilities and Resources	Science
16	5/7/2019	NASA's Management of the Heliophysics Portfolio	IG-19-018	4. Establish Official Framework for Collaborating	Science
17	5/29/2019	Audit of NASA's Europa Mission	IG-19-019	9. Isolating Key Project Personnel from Instrument Selection	Science
18	10/21/2019	Audit of NASA's Security Management	IG-20-001	4. Jurisdiction - Agency Wide	Office of Protective Services
19	10/21/2019	Audit of NASA's Security Management	IG-20-001	5. Firearm Carry Policy	Office of Protective Services
20	11/7/2019	Audit of NASA's Compliance with the Digital Accountability and Transparency Act for FY 2019	IG-20-004	2. Assess Timeliness in Verification and Validation Process	Procurement
21	11/14/2019	NASA's Management of Crew Transportation to the International Space Station	IG-20-005	2. Fix Safety-Critical Systems Before Crewed Flights	Human Exploration and Operations

Row no.	Issue Date	Report Title	Report no.	Recommendation	Responsible Office
22	3/3/2020	Audit of NASA's Management of the Distributed Active Archive Data Centers	IG-20-011	1. Complete an Independent Analysis	Science
23	3/10/2020	NASA's Cost Management of the Space Launch System	IG-20-012	2. Review of HEOMD and NASA program management policies	Human Exploration and Operations
24	3/10/2020	NASA's Cost Management of the Space Launch System	IG-20-012	2b. Establish methodologies and processes to track set cost commitments	Human Exploration and Operations
25	3/10/2020	NASA's Cost Management of the Space Launch System	IG-20-012	2c. Determine reporting and tracking procedures for setting cost and schedule commitments	Human Exploration and Operations
26	3/10/2020	NASA's Cost Management of the Space Launch System	IG-20-012	5. Review of each major contract's scope of work is needed	Human Exploration and Operations
27	3/17/2020	Audit of the Mobile Launcher	IG-20-013	3. Ensure Life-Cycle and Milestone Reviews Include Risks	Human Exploration and Operations
28	3/17/2020	Audit of the Mobile Launcher	IG-20-013	4. Require Separate ABC	Human Exploration and Operations
29	5/15/2020	Audit of NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2019	IG-20-016	2. Statistically Valid Estimate	Chief Financial Officer
30	6/25/2020	FY 2019 FISMA (Review of NASA's Information Security Program)	IG-20-017	Implement Process to Review IT Documents Annually	Chief Information Officer
31	7/16/2020	Audit of NASA's Management of the Orion Multi Purpose Crew Vehicle	IG-20-018	2. Adjustment of production schedules for Artemis 4 and 5 is needed	Human Exploration and Operations
32	8/27/2020	NASA's Policy and Practices Regarding the Use of Non-Agency IT Devices	IG-20-021	2. Life-cycle management requirements needed	Chief Information Officer
33	8/27/2020	NASA's Policy and Practices Regarding the Use of Non-Agency IT Devices	IG-20-021	3. Controls to monitor and enforce MDM business rules needed	Chief Information Officer
34	8/27/2020	NASA's Policy and Practices Regarding the Use of Non-Agency IT Devices	IG-20-021	4. Revision of cybersecurity policy, guidance, and requirements is needed	Chief Information Officer
35	8/27/2020	NASA's Policy and Practices Regarding the Use of Non-Agency IT Devices	IG-20-021	5. Revision of NSINS is needed	Chief Information Officer
36	9/14/2020	Audit of NASA's Management of the SOFIA Airborne Observatory	IG-20-022	7. Tracking science instrument productivity process needed	Science
37	9/16/2020	Planetary Science Division Portfolio	IG-20-023	9. Procedures lacking for CLPS contractors' past performance and financial risk	Science
38	9/16/2020	Planetary Science Division Portfolio	IG-20-023	6. Prioritize meeting congressional mandate; cost schedule; request funding	Science
39	9/16/2020	Planetary Science Division Portfolio	IG-20-023	Engage Centers and leaders to implement budgetary and accounting system options	Science
40	9/16/2020	Planetary Science Division Portfolio	IG-20-023	7. Proper grant use guidance	Science
41	9/16/2020	Planetary Science Division Portfolio	IG-20-023	3. Instituting mentoring	Science
42	9/16/2020	Planetary Science Division Portfolio	IG-20-023	8. CLPS Interface	Science
43	9/16/2020	Planetary Science Division Portfolio	IG-20-023	10. Quality assurance surveillance plans needed	Science
44	9/16/2020	Planetary Science Division Portfolio	IG-20-023	5. Mission Directorate role in TRL development	Science

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45	10/2/2020	Geospatial Data Act Audit	IG-21-001	3. Develop Records Schedules	Chief Information Officer
46	10/2/2020	Geospatial Data Act Audit	IG-21-001	4. Collaborate with NARA Concerning Affiliated Archive Agreements	Chief Information Officer
47	10/2/2020	Geospatial Data Act Audit	IG-21-001	2. Develop Geospatial Data Strategy	Chief Information Officer
48	10/27/2020	NASA's Management of Its Acquisition Workforce	IG-21-002	Performance metrics dashboard implementation	Procurement
49	10/27/2020	NASA's Management of Its Acquisition Workforce	IG-21-002	2. Centralized system needed to document contract assignments	Procurement
50	10/27/2020	NASA's Management of Its Acquisition Workforce	IG-21-002	4. Verify if active CORs have met learning requirements	Procurement
51	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	6. NASA policy to definitize contracts is not enforced	Human Exploration and Operations
52	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	Baseline Gateway requirements and specifications in contract modifications	Human Exploration and Operations
53	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	8. Mature System Requirements Before Acquisitions	Human Exploration and Operations
54	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	5. Credit for Amount Paid to SpaceX	Human Exploration and Operations
55	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	2. Sufficient schedule margin needed for PPE and HALO launch dates	Human Exploration and Operations
56	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	3. HEOMD policy needed for recommended schedule margin	Human Exploration and Operations
57	12/3/2020	Audit of NASA's Management of Hazardous Material	IG-21-006	6. Standardization for housing of hazardous materials is needed	Chief, Safety and Mission Assurance
58	12/3/2020	Audit of NASA's Management of Hazardous Material	IG-21-006	7. Some hazardous materials shelters not in compliance with guidelines/requirements	Chief, Safety and Mission Assurance
59	12/3/2020	Audit of NASA's Management of Hazardous Material	IG-21-006	5. NASA lacks processes to consistently maintain complete and accurate inventory of hazardous materials	Chief, Safety and Mission Assurance
60	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	Lead Mitigation and Remediation Efforts	Office of the Administrator
61	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	Collaboratively Develop Strategies for ADR and Improving Mitigation Compliance	Office of the Administrator
62	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	3. Invest in Active Debris Removal Methods and Technologies	Office of the Administrator
63	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	4. Prioritize direct measurements needed to fill debris gaps	Office of the Administrator
64	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	5. Explore alternative orbital debris radar assets	Chief, Safety and Mission Assurance
65	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	7. Develop and document a formal signature process	Chief, Safety and Mission Assurance

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66	3/31/2020	FY 2020 FISMA (Review of NASA's Information Security Program)	IG-21-014	2. Implement and Monitoring and Surveillance Process	Chief Information Officer
67	5/18/2021	Audit of NASA 's Cybersecurity Readiness	IG-21-019	4. Determine Current Cost and Resources	Chief Information Officer
68	5/18/2021	Audit of NASA 's Cybersecurity Readiness	IG-21-019	5. Consolidate A&A as a Single Functional Line of Business within the CyPress Contract	Chief Information Officer
69	5/18/2021	Audit of NASA 's Cybersecurity Readiness	IG-21-019	Formalize and integrate EA and ESA and develop metrics	Chief Information Officer
70	5/18/2021	Audit of NASA 's Cybersecurity Readiness	IG-21-019	2. Collaborate with Chief Engineer	Chief Information Officer
71	5/18/2021	Audit of NASA 's Cybersecurity Readiness	IG-21-019	3. Determine Optimal Placement of Enterprise Architect	Chief Information Officer
72	5/18/2021	Audit of NASA's Compliance with the Payment Integrity Information Act for Fiscal Year 2020	IG-21-020	3. Enhance Guidance	Chief Financial Officer
73	5/18/2021	Audit of NASA's Compliance with the Payment Integrity Information Act for Fiscal Year 2020	IG-21-020	1. Consultation with OMB	Chief Financial Officer
74	5/18/2021	Audit of NASA's Compliance with the Payment Integrity Information Act for Fiscal Year 2020	IG-21-020	2. Report as instructed by OMB	Chief Financial Officer
75	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	12. Transitioning cooperative agreements to contracts	Education Office
76	8/10/2021	NASA's Development of Next Generation Spacesuits	IG-21-025	2. Develop an Integrated Master Schedule	Human Exploration and Operations
77	8/10/2021	NASA's Development of Next Generation Spacesuits	IG-21-025	1. Adjust xEVA System Schedule to Reduce Risks	Human Exploration and Operations
78	9/8/2021	NASA's Management of the Construction of Facilities Process	IG-21-027	Develop and Institute Agency-wide Process to Prioritize and Fund CoF Projects	Strategic Infrastructure
79	9/8/2021	NASA's Management of the Construction of Facilities Process	IG-21-027	2a. Revise NPR 8820.2 to Define and Establish Parameters for CoF Funding	Strategic Infrastructure
80	9/8/2021	NASA's Management of the Construction of Facilities Process	IG-21-027	2c. Revise NPR 8820.2 to Include Requirements to Reduce and Consolidate the Agency's Footprint	Strategic Infrastructure
81	9/8/2021	NASA's Management of the Construction of Facilities Process	IG-21-027	2b. Revise NPR 8820.2 to Require Energy Saving Projects to Consider Lifecycle Costs	Strategic Infrastructure
82	9/8/2021	NASA's Management of the Construction of Facilities Process	IG-21-027	Institute a Process to Ensure Facility Requirements are Identified and Funding Sources are Specified Early in Development	Strategic Infrastructure
83	9/8/2021	NASA's Management of the Construction of Facilities Process	IG-21-027	4. Reexamine Policies Regarding Oversight of the CoF Program	Strategic Infrastructure
84	11/8/2021	Audit of NASA's Compliance with the Digital Accountability and Transparency Act for FY 2020	IG-22-002	1. Reoccurring Training	Procurement
85	11/8/2021	Audit of NASA's Compliance with the Digital Accountability and Transparency Act for FY 2020	IG-22-002	2. Correct Inaccuracies	Procurement
86	11/15/2021	NASA's Acquisition Strategy for the Artemis Program	IG-22-003	1. Develop a realistic, risk-informed schedule that includes sufficient margin to better align Agency expectations with the development schedule	Human Exploration and Operations

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87	11/15/2021	NASA's Acquisition Strategy for the	IG-22-003	2. Expand upon the existing draft Artemis IMS to include programs outside	Human Exploration and
		Artemis Program		of AES and ESD to properly align dependencies across directorates	Operations
88	11/15/2021	NASA's Acquisition Strategy for the	IG-22-003	3. Develop an Artemis-wide cost estimate, in accordance with best	Human Exploration and
		Artemis Program		practices, that is updated on an annual basis.	Operations
89	11/15/2021	NASA's Acquisition Strategy for the	IG-22-003	9. Codify the remaining governance structure such as the Federated Boards	Office of the
		Artemis Program		and the Joint Directorate Program Management Council (DPMC)	Administrator
90	11/15/2021	NASA's Acquisition Strategy for the	IG-22-003	6. Develop realistic HLS funding profile and schedule given the	Human Exploration and
		Artemis Program		underfunding of HLS in FY 2021, the selection of one HLS award, and the	Operations
				desire to complete a sustainability contract for future lunar missions.	
91	11/15/2021	NASA's Acquisition Strategy for the	IG-22-003	8. Validate that the annual synchronization reviews meet the intent and	Chief Engineer
		Artemis Program		expectations of the milestone reviews replaced by the tailored acquisition	
				approach.	
92	11/15/2021	NASA's Acquisition Strategy for the	IG-22-003	7. Identify measurable cost reduction targets for its ESD contractors	Human Exploration and
		Artemis Program			Operations
93	11/15/2021	NASA's Acquisition Strategy for the	IG-22-003	4. Maintain an accounting of per-mission costs to increase transparency	Human Exploration and
		Artemis Program		and establish a benchmark against which NASA can assess the outcome of	Operations
				initiatives to increase the affordability of ESD systems.	
94	11/15/2021	NASA's Acquisition Strategy for the	IG-22-003	5. Definitize outstanding Artemis-related contracts and make every effort	Human Exploration and
		Artemis Program		to definitize contracts within 180 days in accordance with NASA FAR	Operations
				Supplement 1843.7005(a), Definitization (2018)	
95	11/15/2021	Oversight of FY 2021 Financial	IG-22-004	1. Design and Implement Controls	Chief Financial Officer
		Statement Audit			
96	11/15/2021	Oversight of FY 2021 Financial	IG-22-004	2. Provide Operating Procedures and Training	Chief Financial Officer
		Statement Audit			
97	11/15/2021	Oversight of FY 2021 Financial	IG-22-004	3. Discussions with FASAB personnel	Chief Financial Officer
		Statement Audit			
98	11/30/2021	NASA's Utilization, Management,	IG-22-005	1. Ensure the risks associated with cracks and leaks in the Service Module	Human Exploration and
		and Commercialization of Low Earth		Transfer Tunnel are identified and mitigated prior to agreeing to an ISS life	Operations
		Orbit		extension.	
99	1/11/2022	NASA's Management of its	IG-22-007	1. Further centralize and maintain its collection, summary, and monitoring	Human Exploration and
		Astronaut Corps		of detailed astronaut data to better support the sizing and alignment of the	Operations
				astronaut corps	
100	1/11/2022	NASA's Management of its	IG-22-007	2. Evaluate whether the 15 percent safety margin is sufficient for the	Human Exploration and
		Astronaut Corps		current and near future frequency of space flight missions and document	Operations
				the reasoning behind the selected margin.	
101	1/11/2022	NASA's Management of its	IG-22-007	3. At least 18 months prior to the planned Artemis II launch, coordinate	Human Exploration and
		Astronaut Corps		with Artemis program offices to complete the development and chartering	Operations
				of the framework of Artemis boards and panels to ensure alignment with	
100	. / /2.22			future mission training needs	
102	1/11/2022	NASA's Management of its	IG-22-007	4. Update internal guidance to document the process for identifying and	Human Exploration and
102	2/4/2000	Astronaut Corps	10.33.333	developing training regimens to align with Artemis mission needs.	Operations Office of Posts at its
103	3/14/2022	Audit of NASA's Insider Threat	IG-22-009	1. Unclassified Systems Insider Threat Remains Important to Evaluate and	Office of Protective
101	2/4/2000	Program	10.33.333	Mitigate	Services
104	3/14/2022	Audit of NASA's Insider Threat	IG-22-009	2. Establish Cross-Discipline Communications Working Group for Classified	Office of Protective
		Program		+ Unclassified Systems	Services

Note: This table omits 40 recommendations that NASA determined to be classified or sensitive and are therefore unsuitable for public release.

RECENTLY CLOSED RECOMMENDATIONS

Row	Issue Date	Report Title	Report no.	Recommendation	Responsible Office		
No.							
1	1/27/2021	NASA's Efforts to Mitigate Risks	IG-21-011	6. Explore commercial alternatives to obtaining information on smaller	Chief, Safety and		
		Posed by Orbital Debris		debris	Mission Assurance		
2	3/28/2016	Audit of NASA's Spaceport	IG-16-015	Commission an Independent Assessment to Evaluate SCCS Software	Human Exploration and		
		Command & Control System			Operations		
3	3/3/2020	Audit of NASA's Management of the	IG-20-011	3. Categorization Procedural Improvement	Science		
		Distributed Active Archive Data					
		Centers					