

NASA Office of Inspector General

Open Recommendations as of October 14, 2021

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 167 recommendations that remained open as of October 14, 2021. 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 October 14, 2021

Row no.	Issue Date	Report Title	Report no.	Recommendation	Responsible Office
1	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	Mission Support Directorate
2	9/8/2021	NASA's Management of the Construction of Facilities Process	IG-21-027	Revise NPR 8820.2 to Define and Establish Parameters for CoF Funding	Mission Support Directorate
3	9/8/2021	NASA's Management of the Construction of Facilities Process	IG-21-027	Revise NPR 8820.2 to Include Requirements to Reduce and Consolidate the Agency's Footprint	Mission Support Directorate
4	9/8/2021	NASA's Management of the Construction of Facilities Process	IG-21-027	Revise NPR 8820.2 to Require Energy Saving Projects to Consider Life-cycle Costs	Mission Support Directorate
5	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	Mission Support Directorate
6	9/8/2021	NASA's Management of the Construction of Facilities Process	IG-21-027	Reexamine Policies Regarding Oversight of the CoF Program	Mission Support Directorate
7	8/10/2021	NASA's Development of Next Generation Spacesuits	IG-21-025	Solidify Technical Requirements for Next-Generation Suits	Human Exploration and Operations Mission Directorate
8	8/10/2021	NASA's Development of Next Generation Spacesuits	IG-21-025	Develop an Integrated Master Schedule	Human Exploration and Operations Mission Directorate
9	8/10/2021	NASA's Development of Next Generation Spacesuits	IG-21-025	Adjust xEVA System Schedule to Reduce Risks	Human Exploration and Operations Mission Directorate
10	8/10/2021	NASA's Development of Next Generation Spacesuits	IG-21-025	Develop Acquisition Strategy	Human Exploration and Operations Mission Directorate
11	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Cooperative agreement vs. contract work performed	Chief Financial Officer
12	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Assignment of follow-on GESTAR cooperative agreement grant officer	Chief Financial Officer
13	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Transitioning cooperative agreements to contracts	Chief Financial Officer
14	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Modify cooperative agreements for evaluating performance	Chief Financial Officer
15	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Plan for retaining NASA's performance evaluation reports in a centralized database	Chief Financial Officer
16	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Revise the GCAM to Add Criteria	Chief Financial Officer
17	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Requested Extensions or Augmentation Determination	Chief Financial Officer
18	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Template or standardized format for evaluation recipient performance	Chief Financial Officer
19	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Revise the CGAM to enhance NASA's review of PMS financial information	Chief Financial Officer
20	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	USRA expenditure review	Chief Financial Officer
21	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Improve grant officer oversight and accountability	Chief Financial Officer

Row no.	Issue Date	Report Title	Report no.	Recommendation	Responsible Office
22	5/18/2021	Audit of NASA 's Cybersecurity Readiness	IG-21-019	Determine Current Cost and Resources	Chief Information Officer
23	5/18/2021	Audit of NASA 's Cybersecurity Readiness	IG-21-019	Consolidate A&A as a Single Functional Line of Business within the CyPress Contract	Chief Information Officer
24	5/18/2021	Audit of NASA 's Cybersecurity Readiness	IG-21-019	Formalize and integrate EA and ESA and develop metrics	Chief Information Officer
25	5/18/2021	Audit of NASA 's Cybersecurity Readiness	IG-21-019	Collaborate with Chief Engineer	Chief Information Officer
26	5/18/2021	Audit of NASA 's Cybersecurity Readiness	IG-21-019	Determine Optimal Placement of Enterprise Architect	Chief Information Officer
27	5/18/2021	Audit of NASA's Compliance with the Payment Integrity Information Act for Fiscal Year 2020	IG-21-020	Enhance Guidance	Chief Financial Officer
28	5/18/2021	Audit of NASA's Compliance with the Payment Integrity Information Act for Fiscal Year 2020	IG-21-020	Consultation with OMB	Chief Financial Officer
29	5/18/2021	Audit of NASA's Compliance with the Payment Integrity Information Act for Fiscal Year 2020	IG-21-020	Report as instructed by OMB	Chief Financial Officer
30	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	Lead Mitigation and Remediation Efforts	Science Mission Directorate
31	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	Science Mission Directorate
32	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	Invest in Active Debris Removal Methods and Technologies	Science Mission Directorate
33	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	Prioritize direct measurements needed to fill debris gaps	Science Mission Directorate
34	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	Explore alternative orbital debris radar assets	Science Mission Directorate
35	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	Explore commercial alternatives to obtaining information on smaller debris	Science Mission Directorate
36	1/27/2021	NASA's Efforts to Mitigate Risks Posed by Orbital Debris	IG-21-011	7. Develop and document a formal signature process	Science Mission Directorate
37	12/16/2020	Oversight of FY 2020 Financial Statement Audit	IG-21-003IG-21-005IG-21-008IG-21-009	Improve the Patch and Vulnerability Management Program	Chief Financial Officer
38	12/16/2020	Oversight of FY 2020 Financial Statement Audit	IG-21-003IG-21-005IG-21-008IG-21-009	Eliminate Configuration Weaknesses	Chief Financial Officer
39	12/16/2020	Oversight of FY 2020 Financial Statement Audit	IG-21-003IG-21-005IG-21-008IG-21-009	Improve Technical Controls	Chief Financial Officer

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40	12/16/2020	Oversight of FY 2020 Financial Statement Audit	IG-21-003IG-21-005IG-21-008IG-21-009	Improve Scope and Extent of Segregation of Duties	Chief Financial Officer
41	12/16/2020	Oversight of FY 2020 Financial Statement Audit	IG-21-003IG-21-005IG-21-008IG-21-009	Improve User Administration Controls	Chief Financial Officer
42	12/16/2020	Oversight of FY 2020 Financial Statement Audit	IG-21-003IG-21-005IG-21-008IG-21-009	Enhance Defense in Depth	Chief Financial Officer
43	12/16/2020	Oversight of FY 2020 Financial Statement Audit	IG-21-003IG-21-005IG-21-008IG-21-009	Improve Audit Logging	Chief Financial Officer
44	12/3/2020	Audit of NASA's Management of Hazardous Material	IG-21-006	Maintaining List of Restricted and Prohibited Materials	Mission Support Directorate
45	12/3/2020	Audit of NASA's Management of Hazardous Material	IG-21-006	Standardization for housing of hazardous materials is needed	Mission Support Directorate
46	12/3/2020	Audit of NASA's Management of Hazardous Material	IG-21-006	Some hazardous materials shelters not in compliance with guidelines/requirements	Mission Support Directorate
47	12/3/2020	Audit of NASA's Management of Hazardous Material	IG-21-006	NASA lacks processes to consistently maintain complete and accurate inventory of hazardous materials	Mission Support Directorate
48	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	Credit for Amount Paid to SpaceX	Human Exploration and Operations Mission Directorate
49	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	NASA policy to definitize contracts is not enforced	Human Exploration and Operations Mission Directorate
50	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 Mission Directorate
51	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	Mature System Requirements Before Acquisitions	Human Exploration and Operations Mission Directorate
52	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	Sufficient schedule margin needed for PPE and HALO launch dates	Human Exploration and Operations Mission Directorate
53	11/10/2020	NASA's Acquisition Strategy for the Lunar Gateway and Artemis Missions	IG-21-004	HEOMD policy needed for recommended schedule margin	Human Exploration and Operations Mission Directorate
54	10/27/2020	NASA's Management of Its Acquisition Workforce	IG-21-002	Performance metrics dashboard implementation	Mission Support Directorate
55	10/27/2020	NASA's Management of Its Acquisition Workforce	IG-21-002	Centralized system needed to document contract assignments	Mission Support Directorate
56	10/27/2020	NASA's Management of Its Acquisition Workforce	IG-21-002	Verify if active CORs have met learning requirements	Mission Support Directorate

Row no.	Issue Date	Report Title	Report no.	Recommendation	Responsible Office
57	10/2/2020	Geospatial Data Act Audit	IG-21-001	Develop Records Schedules	Chief Information Officer
58	10/2/2020	Geospatial Data Act Audit	IG-21-001	Collaborate with NARA Concerning Affiliated Archive Agreements	Chief Information Officer
59	10/2/2020	Geospatial Data Act Audit	IG-21-001	Develop Geospatial Data Strategy	Chief Information Officer
60	9/16/2020	Planetary Science Division Portfolio	IG-20-023	DSN infrastructure assessment needed	Science Mission Directorate
61	9/16/2020	Planetary Science Division Portfolio	IG-20-023	Procedures lacking for CLPS contractors' past performance and financial risk	Science Mission Directorate
62	9/16/2020	Planetary Science Division Portfolio	IG-20-023	Prioritize meeting congressional mandate; cost schedule; request funding	Science Mission Directorate
63	9/16/2020	Planetary Science Division Portfolio	IG-20-023	Engage Centers and leaders to implement budgetary and accounting system options	Science Mission Directorate
64	9/16/2020	Planetary Science Division Portfolio	IG-20-023	Proper grant use guidance	Science Mission Directorate
65	9/16/2020	Planetary Science Division Portfolio	IG-20-023	Instituting mentoring	Science Mission Directorate
66	9/16/2020	Planetary Science Division Portfolio	IG-20-023	CLPS Interface	Science Mission Directorate
67	9/16/2020	Planetary Science Division Portfolio	IG-20-023	Quality assurance surveillance plans needed	Science Mission Directorate
68	9/16/2020	Planetary Science Division Portfolio	IG-20-023	Mission Directorate role in TRL development	Science Mission Directorate
69	9/14/2020	Audit of NASA's Management of the SOFIA Airborne Observatory	IG-20-022	Tracking science instrument productivity process needed	Science Mission Directorate
70	8/27/2020	NASA's Policy and Practices Regarding the Use of Non-Agency IT Devices	IG-20-021	Improvement of non-NASA IT device access needed	Chief Information Officer
71	8/27/2020	NASA's Policy and Practices Regarding the Use of Non-Agency IT Devices	IG-20-021	Life-cycle management requirements needed	Chief Information Officer
72	8/27/2020	NASA's Policy and Practices Regarding the Use of Non-Agency IT Devices	IG-20-021	Controls to monitor and enforce MDM business rules needed	Chief Information Officer
73	8/27/2020	NASA's Policy and Practices Regarding the Use of Non-Agency IT Devices	IG-20-021	Revision of cybersecurity policy, guidance, and requirements is needed	Chief Information Officer
74	8/27/2020	NASA's Policy and Practices Regarding the Use of Non-Agency IT Devices	IG-20-021	Revision of NSINS is needed	Chief Information Officer
75	7/16/2020	Audit of NASA's Management of the Orion Multi Purpose Crew Vehicle	IG-20-018	Adjustment of production schedules for Artemis 4 and 5 is needed	Human Exploration and Operations Mission Directorate
76	6/25/2020	FY 2019 FISMA (Review of NASA's Information Security Program)	IG-20-017	Identify Delinquent Control Risk Assessments	Chief Information Officer
77	6/25/2020	FY 2019 FISMA (Review of NASA's Information Security Program)	IG-20-017	Update Training for Maintaining SSPs	Chief Information Officer

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78	6/25/2020	FY 2019 FISMA (Review of NASA's Information Security Program)	IG-20-017	Issue Clarifying Policy Guidance	Chief Information Officer
79	6/25/2020	FY 2019 FISMA (Review of NASA's Information Security Program)	IG-20-017	Approved Contingency Plan for all Information Systems	Chief Information Officer
80	6/25/2020	FY 2019 FISMA (Review of NASA's Information Security Program)	IG-20-017	Policy Clarifying Annual Review of Contingency Plans	Chief Information Officer
81	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
82	5/15/2020	Audit of NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2019	IG-20-016	Statistically Valid Estimate	Chief Financial Officer
83	3/31/2020	FY 2020 FISMA (Review of NASA's Information Security Program)	IG-21-010IG-21-014	Assign Sufficient Resources to the AHC System	Chief Information Officer
84	3/31/2020	FY 2020 FISMA (Review of NASA's Information Security Program)	IG-21-010IG-21-014	Establish a Process to Ensure that Cost Estimates are Developed Prior to POAM Approval	Chief Information Officer
85	3/31/2020	FY 2020 FISMA (Review of NASA's Information Security Program)	IG-21-010IG-21-014	Implement and Monitoring and Surveillance Process	Chief Information Officer
86	3/17/2020	Audit of the Mobile Launcher	IG-20-013	Ensure Life-Cycle and Milestone Reviews Include Risks	Human Exploration and Operations Mission Directorate
87	3/17/2020	Audit of the Mobile Launcher	IG-20-013	Require Separate ABC	Human Exploration and Operations Mission Directorate
88	3/10/2020	NASA's Cost Management of the Space Launch System	IG-20-012	Review of HEOMD and NASA program management policies	Human Exploration and Operations Mission Directorate
89	3/10/2020	NASA's Cost Management of the Space Launch System	IG-20-012	Establish methodologies and processes to track set cost commitments	Human Exploration and Operations Mission Directorate
90	3/10/2020	NASA's Cost Management of the Space Launch System	IG-20-012	Determine reporting and tracking procedures for setting cost and schedule commitments	Human Exploration and Operations Mission Directorate
91	3/10/2020	NASA's Cost Management of the Space Launch System	IG-20-012	Review of each major contract's scope of work is needed	Human Exploration and Operations Mission Directorate
92	3/3/2020	Audit of NASA's Management of the Distributed Active Archive Data Centers	IG-20-011	Categorization Procedural Improvement	Science Mission Directorate
93	3/3/2020	Audit of NASA's Management of the Distributed Active Archive Data Centers	IG-20-011	Complete an Independent Analysis	Science Mission Directorate
94	11/14/2019	NASA's Management of Crew Transportation to the International Space Station	IG-20-005	Fix Safety-Critical Systems Before Crewed Flights	Human Exploration and Operations Mission Directorate
95	11/7/2019	Audit of NASA's Compliance with the Digital Accountability and Transparency Act for FY 2019	IG-20-004	Assess Timeliness in Verification and Validation Process	Chief Financial Officer

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96	11/7/2019	Audit of NASA's Compliance with the Digital Accountability and Transparency Act for FY 2019	IG-20-004	CFO and SAO Incorporate Results in DQP	Chief Financial Officer
97	10/21/2019	Audit of NASA's Security Management	IG-20-001	Federal Arrest Authority	Mission Support Directorate
98	10/21/2019	Audit of NASA's Security Management	IG-20-001	Jurisdiction - Agency Wide	Mission Support Directorate
99	10/21/2019	Audit of NASA's Security Management	IG-20-001	Firearm Carry Policy	Mission Support Directorate
100	10/21/2019	Audit of NASA's Security Management	IG-20-001	Tenant Planning - OPS Inclusion	Mission Support Directorate
101	6/18/2019	JPL Network Security	IG-19-022	Threat Hunting Process	Office of JPL Management and Oversight
102	5/29/2019	Audit of NASA's Europa Mission	IG-19-019	Isolating Key Project Personnel from Instrument Selection	Science Mission Directorate
103	5/7/2019	NASA's Management of the Heliophysics Portfolio	IG-19-018	Implement National Space Weather Action Plan Tasks	Science Mission Directorate
104	5/7/2019	NASA's Management of the Heliophysics Portfolio	IG-19-018	Reassess HPD's Capabilities and Resources	Science Mission Directorate
105	5/7/2019	NASA's Management of the Heliophysics Portfolio	IG-19-018	Establish Official Framework for Collaborating	Science Mission Directorate
106	3/26/2019	Audit of NASA's Service Contracts	IG-19-014	Develop Standardized Set of Metrics	Mission Support Directorate
107	3/26/2019	Audit of NASA's Service Contracts	IG-19-014	Require Procurement to Report Data	Mission Support Directorate
108	3/26/2019	Audit of NASA's Service Contracts	IG-19-014	Analyze and Share Lessons Learned Efficiencies	Mission Support Directorate
109	10/22/2018	Audit of NASA's Historic Property Management	IG-19-002	Develop Comprehensive Procedures for Identifying and Managing Heritage Assets	Mission Support Directorate
110	10/22/2018	Audit of NASA's Historic Property Management	IG-19-002	Evaluate and Justify Existing List of Heritage Assets	Mission Support Directorate
111	10/22/2018	Audit of NASA's Historic Property Management	IG-19-002	Ensure Policy for Using Proceeds Aligns with Agency Goals	Mission Support Directorate
112	5/14/2018	Audit of NASA's Compliance with the Improper Payments Information Act for Fiscal Year 2017	IG-18-017	Develop Process for Tracking Overpayments Identified but Recovered through Contract Credits	Chief Financial Officer
113	4/5/2018	NASA's Management of Goddard Institute for Space Studies and Related Activities	IG-18-015	Implement Partnership Best Practices	Chief Information Officer
114	5/17/2017	Audit of the Construction of Test Stands 4693 and 4697 at Marshall Space Flight Center	IG-17-021	Develop additional construction project guidance	Mission Support Directorate
115	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	Mission Support Directorate

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116	5/17/2017	Audit of the Construction of Test Stands 4693 and 4697 at Marshall Space Flight Center	IG-17-021	Ensure facility needs are included in program planning and scheduling	Mission Support Directorate
117	4/13/2017	NASA's Plans for Human Exploration Beyond Low-Earth Orbit	IG-17-017	Include Cost Factor in Journey to Mars Studies	Human Exploration and Operations Mission Directorate
118	3/9/2017	NASA's Management of Electromagnetic Spectrum	IG-17-012	Incorporate SmallSat Guidance into NPD 2570.5 and NPR 2570.1	Human Exploration and Operations Mission Directorate
119	11/2/2016	NASA's Management of the Earth Science Portfolio	IG-17-003	Update Architecture Plan Every 5 Years	Science Mission Directorate
120	3/28/2016	Audit of NASA's Spaceport Command & Control System	IG-16-015	Commission an Independent Assessment to Evaluate SCCS Software	Human Exploration and Operations Mission Directorate

Note: This table omits 47 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.	Recommendation	Responsible Office
1	7/14/2021	Universities Space Research Association (USRA)	IG-21-022	Credit back excess charged for executive compensation to USRA's general ledger	Chief Financial Officer
2	9/16/2020	Planetary Science Division Portfolio	IG-20-023	Communication for resetting cost caps to reflect rising mission costs	Science Mission Directorate
3	9/14/2020	Audit of NASA's Management of the SOFIA Airborne Observatory	IG-20-022	Science metrics needed as criteria	Science Mission Directorate