

NASA Office of Inspector General

Open Recommendations as of March 15, 2025

The 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 139 recommendations that remained open as of March 15, 2025. 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 15, 2025

| Row No. | Issue Date | Report Title | Report No. | Recommendation No. | Recommendation | Responsible Office |
|---------|------------|--|------------|--------------------|--|--|
| 1 | 1/11/2022 | NASA's Management of its Astronaut Corps | IG-22-007 | 3 | At least 18 months prior to the planned Artemis II launch, coordinate with Artemis program offices to complete the development and chartering of the framework of Artemis boards and panels to ensure alignment with future mission training needs for new vehicles and missions, including Orion, next-generation spacesuits, HLS, and Gateway. | Human Exploration and Operations |
| 2 | 8/4/2022 | Ames Lease Management Practices | IG-22-015 | 1 | Conduct cyclical reviews (no less than once every 5 years) of the Ames lease process to ensure compliance with federal and NASA requirements. | Strategic Infrastructure |
| 3 | 8/4/2022 | Ames Lease Management Practices | IG-22-015 | 2 | Update applicable real estate policies and NASA-wide guidance to enhance requirements and procedures to comply with EUL authority and to require maintaining appropriate documentation, documenting decisions, and fostering transparent coordination and communication with internal and external stakeholders in a timely manner. | Strategic Infrastructure |
| 4 | 8/4/2022 | Ames Lease Management Practices | IG-22-015 | 5 | Implement written procedures in the lease process to ensure compliance with federal and NASA requirements applicable, but not limited to, timely involvement of the RPAO, competition, life-cycle cost analysis, fair market value assessments, certifications, and termination clauses as appropriate. | Ames Research Center (Center Director) |
| 5 | 8/4/2022 | Ames Lease Management Practices | IG-22-015 | 3 | Update applicable real estate policies and NASA-wide guidance to enhance requirements and standardize applicable financial practices (such as the benefit and cost analysis, life-cycle cost analysis, and audits of tenants' books and records when required) associated with leases. | Strategic Infrastructure |
| 6 | 8/4/2022 | Ames Lease Management Practices | IG-22-015 | 4 | Update applicable real estate policies and NASA-wide guidance to incorporate applicable security requirements and agreement clauses in leases. | Strategic Infrastructure |
| 7 | 8/4/2022 | Ames Lease Management Practices | IG-22-015 | 9 | Within the next 3 years, conduct a Center-wide security vulnerability risk assessment, including the districts outside Ames Campus, to ensure compliance with federal and NASA requirements. | Office of Protective Services |
| 8 | 8/4/2022 | Ames Lease Management Practices | IG-22-015 | 10 | Identify and implement mitigation strategies and resource requirements to address the security vulnerability assessment risks. | Office of Protective Services |
| 9 | 11/30/2021 | NASA's Utilization, Management, and Commercialization of Low Earth Orbit | IG-22-005 | 1 | Ensure the risks associated with cracks and leaks in the Service Module Transfer Tunnel are identified and mitigated prior to agreeing to an ISS life extension. | Human Exploration and Operations |
| 10 | 10/27/2020 | NASA's Management of Its Acquisition Workforce | IG-21-002 | 2 | Contract assignments to COs, CORs, and program/project managers in a centralized system for inclusion in the Performance Metrics Dashboard. | Procurement |
| 11 | 10/2/2020 | Geospatial Data Act Audit | IG-21-001 | 2 | Develop a unified Strategy Implementation Plan or "Roadmap" that defines detailed action items, milestones, and responsibilities for geospatial data management in support of missions across NASA. | Chief Information Officer |
| 12 | 11/15/2021 | NASA's Acquisition Strategy for the Artemis Program | IG-22-003 | 3 | Develop an Artemis-wide cost estimate, in accordance with best practices, that is updated on an annual basis. | Human Exploration and Operations |
| 13 | 11/15/2021 | NASA's Acquisition Strategy for the Artemis Program | IG-22-003 | 4 | Maintain an accounting of per-mission costs to increase transparency and establish a benchmark against which NASA can assess the outcome of initiatives to increase the affordability of ESD systems. | Human Exploration and Operations |

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| 14 | 3/3/2020 | Audit of NASA's Management of the Distributed Active Archive Data Centers | IG-20-011 | 1 | Complete an independent analysis to determine the long-term financial sustainability of supporting the cloud migration and operation while also maintaining the current DAAC footprint. | Science |
| 15 | 11/14/2019 | NASA's Management of Crew Transportation to the International Space Station | IG-20-005 | 2 | Correct identified safety-critical technical issues before the crewed test flights, including parachute and propulsion systems testing, to ensure sufficient safety margins exist. | Human Exploration and Operations |
| 16 | 7/16/2020 | Audit of NASA's Management of the Orion Multi-Purpose Crew Vehicle | IG-20-018 | 2 | Adjust the production schedules for Artemis 4 and 5 to better align with the successful demonstration of Artemis 2 to reduce schedule delays associated with potential rework. | Human Exploration and Operations |
| 17 | 9/16/2020 | Planetary Science Division Portfolio | IG-20-023 | 2 | Engage relevant Centers and technical capability leaders to implement budgetary and accounting system options to support critical discipline capabilities. | Science |
| 18 | 10/21/2019 | Audit of NASA's Security Management | IG-20-001 | 5 | 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 |
| 19 | 5/29/2019 | Audit 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. | Science |
| 20 | 3/10/2020 | NASA's Cost Management of the Space Launch System | IG-20-012 | 2 | Review HEOMD and NASA program management policies, procedures, and ABC reporting processes to provide greater visibility into current, future, and overall cost and schedule estimates for the SLS Program and other human space flight program | Human Exploration and Operations |
| 21 | 3/10/2020 | NASA's Cost Management of the Space Launch System | IG-20-012 | 2 | Establish methodologies and processes to track and set cost commitments for Artemis II. | Human Exploration and Operations |
| 22 | 3/10/2020 | NASA's Cost Management of the Space Launch System | IG-20-012 | 2 | Determine reporting and tracking procedures for setting cost and schedule commitments, and monitoring progress throughout the entire life cycle of the SLS Program (through at least 2030). | Human Exploration and Operations |
| 23 | 10/22/2018 | Audit of NASA's Historic Property Management | 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 |
| 24 | 10/22/2018 | Audit of NASA's Historic Property Management | IG-19-002 | 5 | Ensure NASA policy for using the proceeds from facilities leased under NHPA authority appropriately aligns with Agency goals to minimize excess facilities. | Strategic Infrastructure |
| 25 | 10/22/2018 | Audit of NASA's Historic Property Management | 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 |
| 26 | 1/27/2021 | NASA's Efforts to Mitigate Risks Posed by Orbital Debris | IG-21-011 | 3 | Invest in methods and technologies for removing defunct spacecraft. As part of this effort, conduct a study evaluating the technical merit and cost to investing in active debris removal systems and technologies. | Office of the Administrator |
| 27 | 9/8/2021 | NASA's Management of the Construction of Facilities Process | IG-21-027 | 1 | Develop and institute an agency-wide process to prioritize and fund institutional and programmatic CoF projects that align with Agency-level missions and goals and require business case analyses to be completed and considered as part of the process prior to the project's approval. | Strategic Infrastructure |

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| 28 | 9/8/2021 | NASA's Management of the Construction of Facilities Process | IG-21-027 | 3 | Institute a process to ensure facility requirements are identified and funding sources are specified during a program's development and implementation phases. | Strategic Infrastructure |
| 29 | 7/12/2023 | Audit of NASA's Deep Space Network | IG-23-016 | 1 | Explore more efficient options for DSN scheduling, such as maintaining a list of DSN users by priority that is updated in real-time and accessible to all users. | Space Operations |
| 30 | 7/12/2023 | Audit of NASA's Deep Space Network | IG-23-016 | 2 | Ensure completion of the DAEP's remaining antennas and transmitters and finalize requirements for the LEGS project. | Space Operations |
| 31 | 7/12/2023 | Audit of NASA's Deep Space Network | IG-23-016 | 3 | Finalize international agreements, obtain appropriate clearances for installing the remaining 80 kW transmitters, and establish mechanisms to allow for greater oversight of DAEP project sites. | Space Operations |
| 32 | 7/12/2023 | Audit of NASA's Deep Space Network | IG-23-016 | 4 | Explore options for utilizing commercial and international partners networks to offload excess demand from the DSN and to serve as backups in the event of network overages or outages. | Space Operations |
| 33 | 3/20/2023 | NASA's Management of Radioisotope Power Systems (RPS) Program | IG-23-010 | 2 | Conduct high quality, frequent, and routine self-assessment TRAs by project management beginning after the initial implementation of a technology development project as a basis for TRL assessment and risk management discussions. | Science |
| 34 | 3/20/2023 | NASA's Management of Radioisotope Power Systems (RPS) Program | IG-23-010 | 1 | Create an RPS resource allocation and technology development strategic plan that includes an evaluation and mitigation of risks for each project through its completion and provide a communication plan to stakeholders and mission managers. | Science |
| 35 | 3/20/2023 | NASA's Management of Radioisotope Power Systems (RPS) Program | IG-23-010 | 3 | Recalculate the life-cycle costs for Next-Gen RTG and DRPS projects to include funding NASA provides to DOE. | Science |
| 36 | 3/20/2023 | NASA's Management of Radioisotope Power Systems (RPS) Program | IG-23-010 | 9 | Reevaluate the need and if appropriate reauthorize the organizational position of the Nuclear Power and Propulsion System Capability Leadership Team through the appropriate Mission Directorate and provide the Team responsibility for monitoring and advocating strategic nuclear power coordination across NASA. | Space Technology |
| 37 | 3/20/2023 | NASA's Management of Radioisotope Power Systems (RPS) Program | IG-23-010 | 6 | In coordination with DOE, develop a means for the RPS Program to obtain high-fidelity Pu-238 and fueled clad current and future inventory information. | Science |
| 38 | 3/20/2023 | NASA's Management of Radioisotope Power Systems (RPS) Program | IG-23-010 | 4 | Institute an EVM process for Next-Gen RTG and DRPS projects that conforms with NASA policy, FAR requirements, and industry best practices. | Science |
| 39 | 3/20/2023 | NASA's Management of Radioisotope Power Systems (RPS) Program | IG-23-010 | 5 | For Next-Gen RTG and DRPS development efforts that transition to a space flight project, execute a JCL analysis at the proper phases in accordance with NPR 7120.5F. | Science |
| 40 | 3/20/2023 | NASA's Management of Radioisotope Power Systems (RPS) Program | IG-23-010 | 7 | Develop a means to quantify risk of future Pu-238 and fueled clad availability that can be communicated to NASA mission managers and incorporated into mission development proposals and plans. | Science |
| 41 | 3/20/2023 | NASA's Management of Radioisotope Power Systems (RPS) Program | IG-23-010 | 8 | Leverage the RPS Program's existing business processes with its element structure to monitor fission technology development for SMD feasibility and educate stakeholders on the possibilities and differences. | Science |

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| 42 | 6/28/2022 | Audit of NASA's Compliance with the Payment Integrity Information Act for Fiscal year 2021 | IG-22-014 | 7 | Develop a detailed review process, such as a checklist or job aid, outlining the review procedures performed by the Quality Assurance Division within the reporting process for overpayments from sources other than recapture audits to ensure that the primary reviewer and the supervisory quality control reviewers are performing a thorough review of the aggregated submissions of overpayments. | Chief Financial Officer |
| 43 | 1/17/2023 | Review of NASA's Efforts to Partner with International Space Agencies for the Artemis Missions | IG-23-004 | 2 | Establish NASA-led Artemis campaign boards and working groups for partners with agreed-upon commitments with NASA and provide opportunities for liaison representation from international partner agencies. | Exploration Systems Development |
| 44 | 1/17/2023 | Review of NASA's Efforts to Partner with International Space Agencies for the Artemis Missions | IG-23-004 | 10 | Develop an automated routing method for the processing of international agreements within NASA. | International and Interagency Relations |
| 45 | 1/17/2023 | Review of NASA's Efforts to Partner with International Space Agencies for the Artemis Missions | IG-23-004 | 5 | Establish a full-time export control team dedicated to the various Artemis programs in support of space flight developments. | Exploration Systems Development |
| 46 | 1/17/2023 | Review of NASA's Efforts to Partner with International Space Agencies for the Artemis Missions | IG-23-004 | 6 | Review export control requirements and consider additional roles for partner astronauts to increase their utilization in NASA space flight operations, to include amending existing agreements if necessary. | Space Operations |
| 47 | 1/17/2023 | Review of NASA's Efforts to Partner with International Space Agencies for the Artemis Missions | IG-23-004 | 7 | Establish a full-time export control team dedicated to the Artemis programs in support of space flight operations. | Space Operations |
| 48 | 10/5/2022 | Audit of NASA's Compliance with the Geospatial Data Act for Fiscal Year 2022 | IG-23-001 | 3 | Ensure the implementation plan for the Geospatial Data Strategy contains detailed action items and milestones, including those for developing a complete and accurate inventory of the Agency's geospatial data. | Chief Information Officer |
| 49 | 10/5/2022 | Audit of NASA's Compliance with the Geospatial Data Act for Fiscal Year 2022 | IG-23-001 | 2 | Ensure roles and responsibilities of the SAOGI and other key stakeholders are defined in both the Geospatial Data Strategy and its implementation plan. | Chief Information Officer |
| 50 | 10/5/2022 | Audit of NASA's Compliance with the Geospatial Data Act for Fiscal Year 2022 | IG-23-001 | 4 | Ensure continued coordination with NARA to establish the appropriate level of scientific data for inclusion in NARA-approved records schedules. | Chief Information Officer |
| 51 | 5/25/2023 | NASA's Management of the Space Launch System Booster and Engine Contracts | IG-23-015 | 6 | Conduct a thorough review of BPOC's scope of work and technical requirements needed to complete the respective periods of performance and update the contract as appropriate. | Exploration Systems Development |
| 52 | 1/12/2023 | Audit of NASA's Software Asset Management | IG-23-008 | 2 | Implement a single Software Asset Management tool across the Agency. | Chief Information Officer |
| 53 | 1/12/2023 | Audit of NASA's Software Asset Management | IG-23-008 | 9 | Centralize software spending insights to include purchase cards. | Chief Financial Officer |
| 54 | 9/5/2023 | Management of NASA's Earth System Science Pathfinder Program | IG-23-018 | 7 | Develop a formal and clear guidance on the roles, responsibilities, and expectations for the inclusion of applications within Earth Venture Class projects. | Science |
| 55 | 9/5/2023 | Management of NASA's Earth System Science Pathfinder Program | IG-23-018 | 2 | Reexamine its selection process to ensure PIs or their team have sufficient experience, including project management, and the ability to dedicate necessary resources to effectively manage ESSP projects. | Science |
| 56 | 9/5/2023 | Management of NASA's Earth System Science Pathfinder Program | IG-23-018 | 8 | Develop a methodology for funding applications in Earth Venture Class projects. | Science |

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| 57 | 10/19/2023 | NASA's Management of the Artemis Program's Supply Chain | IG-24-003 | 2 | Complete the Supply Chain Visibility Data Requirement Description effort to gain supplier data from contractors. | Procurement |
| 58 | 10/19/2023 | NASA's Management of the Artemis Program's Supply Chain | IG-24-003 | 5 | Ensure data is regularly entered into a supplier database (e.g., Insight Central) to track supplier data and ongoing challenges. | Exploration Systems Development |
| 59 | 10/19/2023 | NASA's Management of the Artemis Program's Supply Chain | IG-24-003 | 6 | Incorporate a representative from the Logistics Management Division into each Artemis-related program and project at appropriate milestones, including at the onset of a contract and each life-cycle milestone. | Exploration Systems Development |
| 60 | 10/19/2023 | NASA's Management of the Artemis Program's Supply Chain | IG-24-003 | 7 | Ensure an Artemis-specific study of the Agency's industrial base and supply chain is completed on a recurring basis. | Exploration Systems Development |
| 61 | 2/28/2024 | Audit of Mars Sample Return Program | IG-24-008 | 2 | Ensure the life-cycle cost and schedule estimates properly incorporate MSR Program complexity and performance as factors and do not only focus on external cost growth impacts and ongoing design issues. | Science |
| 62 | 2/28/2024 | Audit of Mars Sample Return Program | IG-24-008 | 3 | Ensure the Agency Program Management Council is provided with a set of potential launch scenarios by KDP-C, including life-cycle cost and schedule estimates and an associated Joint Cost and Schedule Confidence Level for each. | Science |
| 63 | 2/28/2024 | Audit of Mars Sample Return Program | IG-24-008 | 1 | Ensure the MSR Program establishes a stable CCRS design prior to establishing the life-cycle cost and schedule estimate at KDP-C, incorporating recommendations from the 2023 IRB as appropriate. | Science |
| 64 | 4/25/2024 | STEM Engagement | IG-24-010 | 7 | Require OCHCO, Mission Directorates, and Centers collaborate to identify and incorporate critical Agency workforce needs when developing future STEM engagement activities and develop a plan that increases the number of STEM engagement activities aimed at skilled trade occupations. | Office of the Administrator |
| 65 | 4/25/2024 | STEM Engagement | IG-24-010 | 1 | Re-evaluate the OSTEM performance goals to ensure they are distinct and well correlated with outcomes. | STEM Engagement |
| 66 | 4/25/2024 | STEM Engagement | IG-24-010 | 6 | Require all NASA organizations capture STEM engagement activities in STEM Gateway. | Office of the Administrator |
| 67 | 4/25/2024 | STEM Engagement | IG-24-010 | 5 | Re-evaluate jurisdictions eligible for EPSCoR funds to ensure effective and equitable distribution of Agency funds. | Office of the Administrator |
| 68 | 4/25/2024 | STEM Engagement | IG-24-010 | 2 | Develop a procedure to ensure OSTEM tracks and reports funding for all Agency STEM engagement activities. | STEM Engagement |
| 69 | 8/17/2023 | Evaluation of NASA's Information Security Program under FISMA for FY 2023 | IG-23-017 | 27 | Ensure that each information system owner of external systems has a current ISA that defines how each entity will manage, operate, use, and secure the interconnection. | Chief Information Officer |
| 70 | 8/17/2023 | Evaluation of NASA's Information Security Program under FISMA for FY 2023 | IG-23-017 | 20 | Continue its efforts to prioritize projects that address the complexities required across EL tiers to meet the intermediate (EL2) maturity level in accordance with OMB M-21-31. | Chief Information Officer |
| 71 | 8/17/2023 | Evaluation of NASA's Information Security Program under FISMA for FY 2023 | IG-23-017 | 8 | Revise its policies and procedures to document and implement a lessons learned process based on risk events within the ISCM and Risk Management areas. System security personnel should be instructed to record, analyze, and revise control activities to improve NASA's security posture. | Chief Information Officer |

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| 72 | 8/17/2023 | Evaluation of NASA's Information Security Program under FISMA for FY 2023 | IG-23-017 | 11 | Continue to implement the necessary entity-wide oversight to improve enforcement mechanisms and controls to ensure all standard baselines and vulnerabilities are monitored and remediated in accordance with Federal and Agency requirements. | Chief Information Officer |
| 73 | 8/17/2023 | Evaluation of NASA's Information Security Program under FISMA for FY 2023 | IG-23-017 | 15 | Ensure that the security controls in control families PM, PT, and SR are updated and defined within the Agency's ISCM strategy. | Chief Information Officer |
| 74 | 8/17/2023 | Evaluation of NASA's Information Security Program under FISMA for FY 2023 | IG-23-017 | 16 | Document the NMI process in NASA's ISCM Strategy to ensure its hardware inventory monitoring process is accurate, complete, and fully aligns with NASA's other continuous monitoring guidance and integrates processes, associated outputs, and incorporates results to provide situational awareness. | Chief Information Officer |
| 75 | 3/14/2024 | Audit of NASA's High-End Computing Program | IG-24-009 | 5 | Evaluate cyber risks associated with HEC assets to determine oversight and monitoring requirements, establish risk appetite, and address control deficiencies. Consider using NASA's Splunk enterprise platform as a shared resource. | Office of the Administrator |
| 76 | 3/14/2024 | Audit of NASA's High-End Computing Program | IG-24-009 | 6 | Implement an HEC classification/category designation within Risk Information Security Compliance System for identifying HEC assets. | Office of the Administrator |
| 77 | 3/14/2024 | Audit of NASA's High-End Computing Program | IG-24-009 | 8 | Document data risk impact levels, classification, and export control categorization for all HEC jobs. | Office of the Administrator |
| 78 | 3/14/2024 | Audit of NASA's High-End Computing Program | IG-24-009 | 9 | Identify and mitigate gaps in the foreign national accreditation access process. | Office of the Administrator |
| 79 | 5/1/2024 | NASA's Readiness for the Artemis II Crewed Mission to Lunar Orbit | IG-24-011 | 1 | Ensure the root cause of Orion heat shield char liberation is well understood prior to the Artemis II mission. | Exploration Systems Development |
| 80 | 5/1/2024 | NASA's Readiness for the Artemis II Crewed Mission to Lunar Orbit | IG-24-011 | 3 | Require EGS conduct additional verification and validation for launch imagery equipment prior to launch attempts should launch conditions change. | Exploration Systems Development |
| 81 | 5/1/2024 | NASA's Readiness for the Artemis II Crewed Mission to Lunar Orbit | IG-24-011 | 2 | Conduct analysis of Orion separation bolts using updated models that account for char loss, design modifications, and operational changes to Orion prior to launch of the Artemis II mission. | Exploration Systems Development |
| 82 | 5/1/2024 | NASA's Readiness for the Artemis II Crewed Mission to Lunar Orbit | IG-24-011 | 5 | Develop a corrective action plan to mitigate or prevent the recurrence of uninterpretable Orion telemetry data for the Artemis II mission. | Exploration Systems Development |
| 83 | 5/1/2024 | NASA's Readiness for the Artemis II Crewed Mission to Lunar Orbit | IG-24-011 | 4 | Reexamine procedures to better ensure recovery of Orion jettisoned hardware for the Artemis II mission. | Exploration Systems Development |
| 84 | 5/1/2024 | NASA's Readiness for the Artemis II Crewed Mission to Lunar Orbit | IG-24-011 | 6 | Establish a course of action and timeline for individual Artemis system design changes before beginning integrated system assembly stacking operations. | Exploration Systems Development |
| 85 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | IG-24-001 | 1 | Establish achievable cost saving metrics beginning with Artemis IV SLS elements and production contracts. | Human Exploration and Operations |
| 86 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | IG-24-001 | 4 | Conduct a detailed review of all contractor-submitted documents to ensure the government's rights to data and processes are not unnecessarily transferred to the contractor. | Human Exploration and Operations |

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| 87 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | IG-24-001 | 5 | Include contract flexibility on future SLS acquisitions that will allow NASA to pivot to other commercial alternatives. | Human Exploration and Operations |
| 88 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | IG-24-001 | 6 | For each Artemis SLS rocket under EPOC, add compensation to the DST contract such as incentive fees for when the contractor achieves specific cost saving goals. | Human Exploration and Operations |
| 89 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | IG-24-001 | 2 | Transition the core stage and Exploration Upper Stage contracts to fixed-price contracts with a per mission price to codify the actual costs. | Human Exploration and Operations |
| 90 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | IG-24-001 | 3 | If keeping contracts as cost-plus-award-fee, increase the percentage of cost as a factor when conducting contractor evaluations for award fee purposes. | Human Exploration and Operations |
| 91 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | IG-24-001 | 7 | Ensure Government Mandatory Inspection Points and government oversight teams remain throughout the EPOC transition period. | Chief, Safety and Mission Assurance |
| 92 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | ML-24-007 | 4 | Coordinate with DCMA to ensure contractual compliance with EVMS clauses. | Exploration Systems Development |
| 93 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | IG-24-015 | 1 | Coordinate with Boeing, the SLS Stages prime contractor, to develop a quality management system training program that is compliant with AS9100D and reviewed by the appropriate NASA officials. | Exploration Systems Development |
| 94 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | IG-24-015 | 3 | Perform a detailed cost overrun analysis on Boeing's Stages contract for EUS development. | Exploration Systems Development |
| 95 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | IG-24-015 | 2 | Institute financial penalties for Boeing's noncompliance with quality control standards. | Exploration Systems Development |
| 96 | 8/8/2024 | Artemis IV and Beyond - EPOC/Block 1B | ML-24-007 | 1 | Coordinate with the Assistant Administrator for Procurement to address the identified instances of Northrup Grumman Corporation's Government Furnished Property misuse at its Promontory, Utah, facility. | Exploration Systems Development |
| 97 | 12/19/2023 | Audit of NASA's Privacy Program | IG-24-006 | 5 | Ensure that designated members of a Breach Response Team participate in a tabletop exercise, at least annually. | Chief Information Officer |
| 98 | 12/19/2023 | Audit of NASA's Privacy Program | IG-24-006 | 6 | Require those with specific security and privacy roles to take privacy role-based training. | Chief Information Officer |
| 99 | 9/26/2024 | NASA's Management of Risks to Sustaining International Space Station Operations through 2030 | IG-24-020 | 1 | Report on NASA's progress to reexamine available orbital debris tracking tools and offices to ensure all practicable data sources are leveraged to inform ISS operations and ensure crew safety. | Space Operations |
| 100 | 9/26/2024 | NASA's Management of Risks to Sustaining International Space Station Operations through 2030 | IG-24-020 | 2 | Document safety contingency plans and vehicle reassignment rules to help ensure the safe return of crew in the event of an emergency—expanding these efforts to include damage to the Space Exploration Technologies Corporation's (SpaceX) Crew Dragon and The Boeing Company's Starliner. | Space Operations |
| 101 | 9/26/2024 | NASA's Management of Risks to Sustaining International Space Station Operations through 2030 | IG-24-020 | 3 | Develop plans that reflect potential cost savings measures and anticipated reductions in operations for ISS decommissioning. | Space Operations |

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| 102 | 9/26/2024 | NASA's Management of Risks to Sustaining International Space Station Operations through 2030 | IG-24-020 | 4 | Update the controlled deorbit plan and ensure the plan includes key commitment, technical, schedule, and cost challenges impacting the 2031 deorbit time frame. | Space Operations |
| 103 | 6/6/2024 | Audit of NASA's Commercial Lunar Payload Services Initiative | IG-24-013 | 3 | Finalize a management plan with clear leadership authority and responsibility that would delineate CLPS initiative performance goals and metrics that are measurable and targeted, criteria for augmented insight, a formal lessons-learned process, and any other relevant guidelines for the management plan's implementation. | Science |
| 104 | 6/6/2024 | Audit of NASA's Commercial Lunar Payload Services Initiative | IG-24-013 | 1 | Conduct updated market research to assess capability growth across the lunar economy and associated transportation sector since 2017. | Science |
| 105 | 6/6/2024 | Audit of NASA's Commercial Lunar Payload Services Initiative | IG-24-013 | 2 | Reassess NASA's role in, and contribution to, the commercial lunar delivery market. | Science |
| 106 | 6/6/2024 | Audit of NASA's Commercial Lunar Payload Services Initiative | IG-24-013 | 4 | Prepare and formalize a CLPS Manifest Selection Board charter and processes. | Science |
| 107 | 6/6/2024 | Audit of NASA's Commercial Lunar Payload Services Initiative | IG-24-013 | 5 | Strengthen procedures to ensure science payload interfaces and requirements are mature enough to write an RFTP that would minimize future requirement changes. | Science |
| 108 | 7/31/2024 | NASA's Nancy Grace Roman Space Telescope Project | IG-24-014 | 1 | Evaluate space communication and navigation risks, including running and reviewing loading analysis from all four networks. | Science |
| 109 | 7/31/2024 | NASA's Nancy Grace Roman Space Telescope Project | IG-24-014 | 2 | Develop a contingency plan for Roman's space communication and navigation services, including an assessment of the Deep Space Network's (DSN) ability to support Roman. | Science |
| 110 | 7/31/2024 | NASA's Nancy Grace Roman Space Telescope Project | IG-24-014 | 3 | Assess the potential impacts of the delayed upgrades to the Near Space Network (NSN) on Roman's scheduled launch timeline. | Science |
| 111 | 9/24/2024 | NASA's Management of its Rocket Propulsion Testing (RPT) Capability | IG-24-018 | 5 | Ensure that the appropriate revisions are made to NPR and NPD 8600.1 to clarify the authority structure. | Strategic Infrastructure |
| 112 | 9/24/2024 | NASA's Management of its Rocket Propulsion Testing (RPT) Capability | IG-24-018 | 2 | Ensure that cost models deployed at all RPT Centers include full recovery of applicable maintenance costs for the infrastructure and facilities being utilized, similar to that being piloted at Stennis. | Space Operations |
| 113 | 9/24/2024 | NASA's Management of its Rocket Propulsion Testing (RPT) Capability | IG-24-018 | 4 | Document the results and planned RPT actions following completion of the Commercial Capability Survey. | Space Operations |
| 114 | 9/24/2024 | NASA's Management of its Rocket Propulsion Testing (RPT) Capability | IG-24-018 | 1 | Establish a requirement in the RPT Program Plan for recurring right-size studies for the RPT capability portfolio and use the results to reexamine workforce and capability requirements for the future. | Space Operations |
| 115 | 9/24/2024 | NASA's Management of its Rocket Propulsion Testing (RPT) Capability | IG-24-018 | 3 | Document and establish the FM&M process in the RPT Program Plan or RPTMB Operating Procedures. | Space Operations |
| 116 | 8/27/2024 | NASA's Management of the Mobile Launcher 2 Project | IG-24-016 | 2 | Conduct a thorough analysis of the feasibility of utilizing the fixed-price option, and if NASA determines that it will not be exercised, remove the option from the ML-2 contract. | Exploration Systems Development |
| 117 | 8/27/2024 | NASA's Management of the Mobile Launcher 2 Project | IG-24-016 | 1 | Ensure lessons learned from the ML-2's acquisition, contract, and project management are codified to inform future development efforts. | Exploration Systems Development |
| 118 | 12/16/2024 | Oversight of the FY 2024 Financial Statement Audit | IG-25-001 | 1 | Ensure that control activities are operating as designed and that the appropriate level of documentation to evidence reviews is maintained to prevent and detect material misstatements. | Chief Financial Officer |
| 119 | 12/16/2024 | Oversight of the FY 2024 Financial Statement Audit | IG-25-001 | 2 | Consider whether additional training on proper operation of its controls is necessary to enhance NASA's financial reporting control environment. | Chief Financial Officer |

| Row No. | Issue Date | Report Title | Report No. | Recommendation No. | Recommendation | Responsible Office |
|---------|------------|--|------------|--------------------|--|-------------------------|
| 120 | 12/16/2024 | Oversight of the FY 2024 Financial Statement Audit | IG-25-001 | 3 | Perform ongoing monitoring over the operating effectiveness of its financial reporting controls. | Chief Financial Officer |

Note: This table omits 19 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 No. | Recommendation | Responsible Office |
|---------|------------|--|------------|--------------------|---|---|
| 1 | 9/5/2023 | Management of NASA's Earth System Science Pathfinder Program | IG-23-018 | 5 | Conduct a lessons learned review of the GeoCarb mission to identify what NASA, PI, and contractor practices and activities should be revised and applied to the management of future Earth Venture Class projects. | Science |
| 2 | 9/5/2023 | Management of NASA's Earth System Science Pathfinder Program | IG-23-018 | 6 | Develop a plan to provide principal investigators (PIs) and their teams with contract and project management training post-selection approval to better equip them to manage subcontractors. | Science |
| 3 | 1/27/2021 | NASA's Efforts to Mitigate Risks Posed by Orbital Debris | IG-21-011 | 1 | Lead national and international collaborative efforts to mitigate orbital debris including activities to encourage active debris removal and the timely end-of-mission disposal of spacecraft. | Office of the Administrator |
| 4 | 1/27/2021 | NASA's Efforts to Mitigate Risks Posed by Orbital Debris | IG-21-011 | 2 | Collaborate with Congress, other federal agencies, and partners from the private and public sectors to adopt national and international guidelines on active debris removal and strategies for increasing global compliance rates for timely removal of spacecraft at the end of a mission. | Office of the Administrator |
| 5 | 1/17/2023 | Review of NASA's Efforts to Partner with International Space Agencies for the Artemis Missions | IG-23-004 | 9 | Execute appropriate Artemis agreements with key international space agency partners to ensure partner roles and responsibilities are clearly understood and allow for efficient and timely partnerships in support of Artemis. | International and Interagency Relations |
| 6 | 4/7/2022 | NASA's Multi-Mission Program Cost Estimating | IG-22-011 | 4 | Develop a formal process by which a risk-based probabilistic analysis is conducted to cover the global and interdependency risks of major programs and projects when those individual projects are required for the successful implementation of a mission; regardless of how those programs/ projects are categorized. | Chief Financial Officer |
| 7 | 4/7/2022 | NASA's Multi-Mission Program Cost Estimating | IG-22-011 | 7 | Establish procedural requirements for a risk posture analysis to ensure that major programs supporting multiple missions identify and estimate the cost and schedule impact of global and major interdependency risk. | Chief Engineer |