

NASA Earned Value Management (EVM) Contract Requirements Checklist

April 2023

BASIC REQUIREMENTS (See Table 1 Summary) *

- Earned Value Management System (EVMS) compliance with EIA-748 Guidelines** is required for development or production contracts that are equal to or greater than \$20M.
- A validated EVMS by a cognizant federal agency is required for development and production contracts equal to or greater than \$100M, or a plan to achieve a validated EVMS in a timely manner.
- EVM is not required for contracts valued that support Science Mission Directorate (SMD) Mission Risk Class D (Cat 3/Class D) projects less than \$150M.
- EVM is discouraged for Firm-Fixed Price (FFP) contracts. The Contracting Officer (CO) will collaborate with the Project Manager (PM) to ensure the appropriate data can be obtained to fulfill program management needs and comply with NPR 7120.5 (latest version).
- EVM may be imposed on contracts less than \$20M as a risk-based decision of the PM.
- Prime contractors will flow down the same EVM requirements to applicable subcontractors.

*NASA Procurement Class Deviation (PCD) 15-05, Class Deviation to NFS 1834.2, 1834.203-70, 1852.234-1 and 1852.234-2-EARNED VALUE MANAGEMENT SYSTEM THRESHOLD at <https://www.nasa.gov/evm/regulations>.

**Electronic Industries Alliance (EIA-748) Standard, *Earned Value Management Systems*

STATEMENT OF WORK (SOW)

- The SOW shall not contain guidance or direction that conflicts with, removes, or adds work scope to the contractor's validated EVMS.
- The SOW should include additional instructions to contractors when EVM is required, including guidance on monthly management reviews, Integrated Baseline Reviews (IBRs), and other EVM topics, as applicable. Refer to Appendix B of the *NASA EVM Implementation Handbook* for sample SOW language located at the NASA EVM Website, <https://www.nasa.gov/evm/handbooks>.

NASA FAR SUPPLEMENT (NFS) FOR CONTRACTS (PCD 15-05)

- Insert NFS 1852.234-1, Notice of Earned Value Management System, in contract solicitations for:
 - Development or production, including flight and ground support projects and institutional projects (facility IT, investment, etc.) with a value exceeding \$20M.
 - Acquisitions of any value designated as major by the project manager in accordance with OMB Capital Programming Guide, Part 7 - SUPPLEMENT TO OFFICE OF MANAGEMENT AND BUDGET CIRCULAR A-11: PLANNING, BUDGETING, AND ACQUISITION OF CAPITAL ASSETS.
- Insert NFS 1852.234-2, Earned Value Management System, in solicitations and contracts with a value equal to or exceeding \$100M that include the provision at 1852.234-1. The clause with its Alternate I will be used when the contract value is less than \$100M.

DATA REQUIREMENTS

- The Integrated Program Management Data Analysis Report (IPMDAR) contains data for measuring contract execution progress on acquisition contracts. The IPMDAR's primary purpose to the Government is to reflect current contract performance status and the forecast of future contract performance. The IPMDAR consists of the following three components:
 - Contract Performance Dataset (CPD). Provides performance/execution data from the supplier's existing management systems
 - Schedule (comprised of both the Native Schedule File and the Schedule Performance Dataset (SPD)). Provides data from the supplier's Integrated Master Schedule (IMS).
 - Performance Narrative Report (comprised of both the Executive Summary and the Detailed Analysis Report). Provides narrative analysis of data provided in the CPD and the Schedule.

- The IPMDAR is required whenever EVM is required (see NASA Procurement Information Circular (PIC) 15-07, GUIDANCE ON THE INTEGRATED PROGRAM MANAGEMENT DATA ANALYSIS REPORT FOR EARNED VALUE MANAGEMENT located at <https://www.nasa.gov/evm/regulations>). The *NASA IPMDAR Tailoring Supplement* contains a sample IPMDAR DRD and tailoring instructions, and can be found on the NASA EVM website at <https://www.nasa.gov/evm/guidance>.
- The Contract Work Breakdown Structure (WBS) DRD will be included in all contracts requiring EVM. A product oriented WBS in accordance with *NASA WBS Handbook* is mandatory when EVM is required. A sample WBS DRD can be found in Appendix D of the *NASA WBS Handbook*. The *NASA WBS Handbook* can be found on the NASA EVM website at <https://www.nasa.gov/evm/handbooks>.
- Contractor Financial Management Reports, Monthly and Quarterly, NASA Forms (NF) 533M and 533Q respectively, are required on contracts (see NPD 9501.1 and NPR 9501.2) and, when EVM is required, will reflect information consistent with the IPMDAR and generated from the same management information systems. The IPMDAR does not substitute for the NF533.
- Cost Reporting for non-EVM contracts is required monthly from suppliers performing work in support of a NASA project that is using EVM. Examples of these contracts are steady state or level of effort and do not meet the EVM requirements or below the threshold for applying EVM. See the NASA EVM website for additional guidance and sample DRDs at <https://www.nasa.gov/evm/guidance>.

INTEGRATED BASELINE REVIEWS (IBRs)

- IBRs are required whenever EVM is required.
- For contracts, IBRs will be conducted within 180 calendar days after contract award (if a pre-award IBR has not been conducted), or exercise of significant options, or within 60 calendar days after incorporation of major modifications.
- Project Managers will lead their Prime Contractor IBRs (with support of EVM and schedule subject matter experts).
- See the *NASA IBR Handbook* for instructions, tips, and tools on how to conduct an IBR. The *NASA IBR Handbook* can be found on the NASA EVM website at <https://www.nasa.gov/evm/handbooks>.

AWARD FEE CRITERIA

- The application of EVM and IBRs in the award fee criteria is a valuable tool to promote good project management. However, the use of a single EVM indicator, such as the Cost Performance Index (CPI), or the IBR event, is prohibited. See PCD10-17 “CLASS DEVIATION TO NFS 1816.405-274: AWARD FEE EVALUATION FACTORS ARE NOT DIRECTLY TIED TO EARNED VALUE MANAGEMENT METRICS” at [NASA EVM Regulations and Requirements | NASA](#).
- See the [NASA EVM Implementation Handbook](#) for examples of effectively incorporating EVM and IBRs into the award fee evaluation.

ADDITIONAL INFORMATION

- NASA EVM <https://www.nasa.gov/evm>
- NASA Procedural Requirements (NPR) 7120.5, NASA Space Flight and Project Management Requirements [NODIS Library \(nasa.gov\)](#)
- DCMA EVMS Center: <https://www.dcma.mil/HQ/EVMS>
- National Defense Industrial Association (NDIA) Integrated Program Management Division (IPMD): <https://www.ndia.org/divisions/ipmd>

Table 1. NASA Earned Value Management System (EVMS) and Reporting Requirements for Contracts

Contract/ Subcontract Total Estimated Value ¹⁻³	EIA-748 EVMS Standard (PCD 15-05)	NASA EVMS Solicitation and Contract Clause (PCD 15-05)	IPMDAR DRD (PIC 15-07)	WBS DRD	Project Cost Report DRD (Non-EVM) ⁵
Cost or FPI \$100M or greater	Validation required	Required: NFS 1852.234-1 and NFS 1852.234-2	Required: IPMDAR DRD-	Required	Not Required
Cost or FPI \$20M but less than \$100M	Compliance with guidelines; Validation not required	Required: NFS 1852.234-1 and NFS 1852.234-2 with Alternate 1	Required: IPMDAR DRD	Required	Not Required
Cost or FPI Less than \$20M; Major Acquisition; Non-developmental contracts	Not required Optional at the discretion of PM	Not required (If PM elects to require EVMS then NFS 1852.234-1 and NFS 1852.234-2 with Alternate 1 is required)	Required: IPMDAR DRD - IMS Only	Required	Required if EVMS and IPMDAR not required
FFP greater than \$20M	Not required	Not required	Required: IPMDAR DRD - IMS Only	Required	Not required
Contracts Supporting SMD Cat 3/Class D Missions less than \$150M	Not required	Not required	Required: IPMDAR - IMS Only	Required	Required if EVMS and IPMDAR not required

Notes:

1. Prime contractor responsible for EVMS requirements on subcontractors using same rules as applied to prime contract. Total estimated value includes options.
2. EVMS is applied on development or production contracts and subcontracts, including flight and ground support projects and institutional projects (facility IT, investment, etc.) and major acquisitions as designated by the Project Manager.
3. The application of EVMS is discouraged on Firm Fixed Price (FFP) contracts, contracts < 12 months in duration (inclusive of options), non-developmental engineering support services, steady state operations, basic and applied research, and routine services such as janitorial or grounds maintenance services.
4. Integrated Baseline Reviews (IBRs) are required whenever EVMS is required. For contracts, IBRs will be conducted within 180 calendar days after contract award (if a pre-award IBR has not been conducted), or exercise of significant options, or within 60 calendar days after incorporation of major modifications.
5. Cost reporting for non-EVMS contracts that are performing work in support of a NASA project that is using EVMS. See NASA document "Reporting for Contracts with No Earned Value Management EVMS Requirements" at <https://www.nasa.gov/evm/guidance> for information/sample DRDs.

Legend:

DRD	Data Requirements Description
EIA-748	Electronic Industries Alliance Standard 748, <i>Earned Value Management System</i>
FFP or FPI	Firm Fixed Price or Fixed Price Incentive
IMS	Integrated Master Schedule
IPMDAR	Integrated Program Data Analysis Report
NFS	NASA Federal Acquisition Regulation Supplement
PCD	Procurement Class Deviation
PIC	Procurement Information Circular
WBS	Work Breakdown Structure