1. Process Category	2. Metric	ID (new, old)	3. Method	4.
A	A.01.01	(01.01.01) (1)	automated/manual	init

4. Frequency

initially & following implementation of customer changes

5. Attribute

Product-Oriented Work Breakdown Structure (WBS)

6. Metric Intent

This metric confirms that the WBS is product and deliverable oriented depicting the breakdown of contract work scope/federal directed scope documents for work authorization, tracking, and reporting purposes. This metric compares the products and deliverables in the scope documents to the WBS. All elements of the WBS are defined in an accompanying WBS dictionary, as required. Reference is made to the DOE WBS handbook for this assessment.

7. Metric Short Description

WBS dictionary unsubstantiated

8. Metric

X =

1. Products and deliverables listed in the contract work scope/federal directed scope documents are not identified in the WBS dictionary.

2. Product-oriented groupings of project scope elements in the WBS dictionary are not organized and subdivided to the total work scope as defined in the contract work scope/federal directed scope documents.

3. The WBS dictionary does not define the products and deliverables to be developed or produced.

4. The WBS dictionary does not relate elements of work to be accomplished to each other and the overall end product.

Y = Number of WBS identifiers in the WBS index.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		2.2
12. Needed Artifacts and D	ata Elements	
<u>Y artifact(s)</u> FF01_{WBS}	X artifact(s) contract work scope/federal directed scope documents	<u>FF data elements</u> FF01_{WBS}_[C]_WBS FF01_{WBS}_[D]_title FF01_{WBS}_[E]_level FF01_{WBS}_[G]_WBS_type FF01_{WBS}_[J]_WBS_narrative

13. Assumptions

FF01_{WBS} identifies all WBS identifiers in the WBS dictionary. Reference DOE WBS handbook for guidance.

14. Instructions	
Determine Y items based on the following.	Y
Count FF01_{WBS}_[C]_WBS items and, if identified, with the following characteristics.	qualifier
 FF01_{WBS}_[D]_title <listing></listing> 	other 1
 FF01_{WBS}_[J]_WBS_narrative <listing></listing> 	other 2
 FF01_{WBS}_[E]_level <listing></listing> 	other 3
 FF01_{WBS}_[G]_WBS_type <listing></listing> 	other 4
Determine X items, a subset of Y, based on the following.	x
Manually count flagged items based on the following operation(s).	qualifier
 1. Products and deliverables listed in the contract work scope/federal directed scope documents are not identified in the WBS dictionary. 	operation

2. Product-oriented groupings of project scope elements in the WBS dictionary are not organized and subdivided to the total work scope as defined in the contract work scope/federal directed scope documents.

3. The WBS dictionary does not define the products and deliverables to be developed or produced.

4. The WBS dictionary does not relate elements of work to be accomplished to each other and the overall end product.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 4, Management Value: "The WBS is a product-oriented division of project tasks depicting the breakdown of work scope for work authorization, tracking, and reporting purposes that facilitates traceability and provides a control framework for integrated program management."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
A	A.01.02	(01.01.02) (2)	automated/manual verification	initially & following implementation of customer changes	
5. Attribute					
Product-Oriented Work Break	down Structure (WBS	5)			
6. Metric Intent					
statement/content are consist	ent depicting the brea ntrol framework for int	kdown of work fo egrated project m	l (at a minimum) and that the WBS or r authorization, tracking, and reporti nanagement. This metric ensures the n to proceed.	ng purposes that facilitates	
7. Metric Short Descript	ion				
WBS scope, dictionary <> WA	AD.			а	
8. Metric					
X = Number of CAs and SLF	Ps in the WBS diction	onary, where Wi	3S dictionary scope does not mat	ch WAD scope.	
Y = Number of CAs and SLF	PPs in the WBS diction	onary.			
9. Max. Threshold	10. Max. Tol	erance	11. Weight		
0			2.2		
12. Needed Artifacts and	d Data Elements				
<u>Y artifact(s)</u> FF01_{WBS}	<u>X artifact(s)</u> FF01_{WBS} FF13_{WAD}		FF data elements FF01_{WBS}_[C]_WBS FF01_{WBS}_[G]_WBS_type FF01_{WBS}_[J]_WBS_narrative FF13_{WAD}_[C]_WBS FF13_{WAD}_[L]_scope	3	
13. Assumptions					
14. Instructions					
Determine Y items based on t	the following.			Y	
Count FF01_{WBS}_[C]_WBS		ed, with the follow	ing characteristics.	qualifier	
 FF01_{WBS}_[G]_WBS_ty 				WBS type	
Determine X items, a subset of Y, based on the following.					
Count flagged items based or			ified, with the following characteristic	CS. qualifier qualifier	
• FF01 {WBS} [J] WBS na	• •			operation	
OR		-)_[_]_000b0			
FF01_{WBS}_[J]_WBS_na				manual	
Conduct the following manual	operation(s).			manual	

Conduct the following manual operation(s).

· Verify manually.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 4, Management Value: "The WBS is a product-oriented division of project tasks depicting the breakdown of work scope for work authorization, tracking, and reporting purposes that facilitates traceability and provides a control framework for integrated program management."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Section 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

operation

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
A	A.01.04	(01.02.01) (3)	automated/manual verification	initially & following implementation of customer changes	
5. Attribute					
Product-Oriented Work Break	down Structure (V	VBS)			
6. Metric Intent					
modifications. This metric use	es the CA WBS BA CA WBS BAC val	AC value to identify the	ork scope and any revisions resulting ne initial work scope, and when work / and CA WBS BAC values listed in	5	
7. Metric Short Descript	ion				
CA DB, RAM <> IPMR F1				а	
8. Metric					
X = Number of CAs in the R	AM, where RAM	CA DB <> IPMR F1	CA BAC DB.		
Y = Number of CAs in the de	ollarized RAM.				
9. Max. Threshold	10. Max. '	Tolerance	11. Weight		
0	1000		2.2		
12. Needed Artifacts an	d Data Elemen	ts			
<u>Y artifact(s)</u> FF01_{WBS}	<u>X artifact(s)</u> FF08_{IPM FF03_{cost RAM IPMR F1	R_F1}	<u>FF data elements</u> FF01_{WBS}_[C]_WBS FF01_{WBS}_[G]_WBS_type FF03_{cost}_[K]_DB FF08_{IPMR_F1}_[C]_WBS FF08_{IPMR_F1}_[J]_BAC		
13. Assumptions					
14. Instructions					
Determine Y items based on t	the following.			Y	
Count FF01_{WBS}_[C]_WBS • FF01_{WBS}_[G]_WBS_ty		ntified, with the follov	ving characteristics.	qualifier WBS type	
Determine X items, a subset of				x	
Identify FF08_{IPMR_F1}_[C]			ing characteristics.	qualifier qualifier	
Count flagged items based orFF03_{cost}_[K]_DB <> FF	0 1	()		operation	
Conduct the following manual		,,		manual	
5	 Verify manually against the RAM and IPMR F1. 				

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 4, Typical Attribute(s): "Only one WBS is used per project and it contains all project work, including revisions for authorized changes and modifications."

Page 4, Typical Attribute(s): "The WBS elements should collectively provide a complete definition of work scope requirements."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification					
1. Process Category	2. Metric	D (new, old)	3. Method	4. Frequency	
Α	A.01.05	(01.02.03) (4)	automated	monthly	

5. Attribute

Product-Oriented Work Breakdown Structure (WBS)

6. Metric Intent

This metric confirms that the WBS includes all authorized project work and any revisions resulting from authorized changes and modifications. This metric ensures that the WBS identifiers collectively provide a complete definition of work scope requirements.

7. Metric Short Description

WBS, index <> BL IMS

8. Metric

X = Number of WBS identifiers in the WBS index, where identifiers <> BL IMS WBS identifiers.

Y = Number of WBS identifiers in the WBS index.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		2.2
12. Needed Artifacts and Da	ata Elements	
<u>Y artifact(s)</u> FF01_{WBS}	<u>X artifact(s)</u> FF04_{schedule} WBS dictionary	<u>FF data elements</u> FF01_{WBS}_[C]_WBS FF01_{WBS}_[G]_WBS_type FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[G]_WBS

13. Assumptions

14. Instructions	
Determine Y items based on the following.	Y
Count FF01_{WBS}_[C]_WBS items and, if identified, with the following characteristics.	qualifier
 FF01_{WBS}_[G]_WBS_type = WP or PP or SLPP 	WBS type
Determine X items, a subset of Y, based on the following.	x
Identify FF04_{schedule}_[G]_WBS and, if identified, with the following characteristics.	qualifier
 FF04_{schedule}_[C]_schedule_type = BL 	sch. type
Count flagged items based on the following operation(s).	qualifier
 FF04_{schedule}_[G]_WBS = null 	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 4, Typical Attribute(s): "Only one WBS is used per project and it contains all project work, including revisions for authorized changes and modifications."

Page 4, Typical Attribute(s): "The WBS elements should collectively provide a complete definition of work scope requirements."

16. Rev	16. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank			
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank			
V02.00	Updated for release. Sections 10 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank			
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank			
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank			

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
A	A.02.01	(01.03.01) (5)	automated/manual verification	monthly	
5. Attribute					
Vork Breakdown Structure (W	/BS) Hierarchy				
6. Metric Intent					
he hierarchical relationships c	of scope and reso	urces assigned to va	act-oriented breakdown of the project arious organizational levels consisten pares the difference between the curr	it with external (custom	ner)
7. Metric Short Descripti	on				
A and SLPP WBS or DB, cu	rrent <> prior				
3. Metric					
K = Number of CA and SLPP or DB in the current month r	•	ior month report, w	here CA and SLPP WBS or DB in t	he prior month repor	t <> CA WB\$
Y = Number of CA and SLPP	WBSs in the pr	ior month report.			
9. Max. Threshold	10. Max.	Tolerance	11. Weight		
0	1000		1.9		
12. Needed Artifacts and	l Data Elemen	ts			
<u>Y artifact(s)</u> CPP-1_FF01_{WBS}	<u>X artifact(s)</u> FF03_{cost CPP-1_FF0	}	FF data elements FF01_{WBS}_[C]_WBS FF01_{WBS}_[G]_WBS_type FF03_{cost}_[K]_DB CPP-1_FF01_{WBS}_[C]_WBS CPP-1_FF01_{WBS}_[G]_WBS_ CPP-1_FF03_{cost}_[K]_DB	type	
13. Assumptions					
-					
13. Assumptions 14. Instructions Determine Y items based on the Count CPP-1_FF01_{WBS}_[G] • FF01_{WBS}_[G]_WBS_typ	C]_WBS items an				Y qualifier WBS type
14. Instructions Determine Y items based on th Count CPP-1_FF01_{WBS}_[G] FF01_{WBS}_[G]_WBS_typ Determine X items, a subset o Identify CPP-1_FF03_{cost}_[I] Count flagged items based on CPP-1_FF03_{cost}_[D]_W OR	C]_WBS items ar be = CA or SLPP <u>f Y, based on the</u> D]_WBS,FF03_{c the following ope BS <> FF03_{cos	<u>following.</u> cost}_[D]_WBS and, eration(s). et}_[D]_WBS		teristics.	qualifier
 14. Instructions Determine Y items based on the control CPP-1_FF01_{WBS}_[G]_WBS_type FF01_{WBS}_[G]_WBS_type Determine X items, a subset on the control of the con	C]_WBS items ar be = CA or SLPP f Y, based on the D]_WBS,FF03_{(cost)} BS <> FF03_{cost} operation(s).	following. cost}_[D]_WBS and, eration(s). tt}_[D]_WBS _[K]_DB	he following characteristics.	teristics.	qualifier WBS type X qualifier qualifier

Page 4, Typical Attribute(s): "The WBS identifies all WBS elements specified for external reporting."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
A	A.02.02	(01.04.01) (6)	automated/manual	initially & semi-annually to align with horiz

semi-annually to align with horizon planning increments

5. Attribute

Work Breakdown Structure (WBS) Hierarchy

6. Metric Intent

This metric confirms that the WBS is arranged in a hierarchy and constructed to allow for clear and logical groupings, including identification of subcontractor work scope. This metric determines if products and/or deliverables, including subcontractor work scope, have been appropriately decomposed into logical parent and child relationships using the technical explanations provided by CAM during discussions.

7. Metric Short Description

WBS not further decomposed

8. Metric

X = Number of WBS indentifiers in the WBS index based on the contract work scope/federal directed scope documents, where WBS products and deliverables have not been further decomposed into logical parent and child relationships based on discussions with the CAMs.

Y = Number of WBS indentifiers in the WBS index based on the contract work scope/federal directed scope documents.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		1.9
12. Needed Artifacts and D	ata Elements	
<u>Y artifact(s)</u> FF01_{WBS}	X artifact(s) contract work scope/federal directed scope documents	<u>FF data elements</u> FF01_{WBS}_[C]_WBS FF01_{WBS}_[D]_title FF01_{WBS}_[E]_level FF01_{WBS}_[G]_WBS_type FF01_{WBS}_[J]_WBS_narrative

13. Assumptions

14. Instructions	
Determine Y items based on the following.	Y
Count FF01_{WBS}_[C]_WBS items and, if identified, with the following characteristics.	qualifier
 FF01_{WBS}_[D]_title <listing></listing> 	other 1
 FF01_{WBS}_[J]_WBS_narrative <listing></listing> 	other 2
 FF01_{WBS}_[E]_level <listing></listing> 	other 3
 FF01_{WBS}_[G]_WBS_type <listing></listing> 	other 4
Determine X items, a subset of Y, based on the following.	x
Manually count flagged items based on the following operation(s).	qualifier
 WBS products/deliverables that have not been further decomposed into logical parent and child relationships based on discussions with the CAMs. 	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 4, Intent: "A WBS is a direct representation of the work scope in the project, documenting the hierarchy and description of the tasks to be performed and their relationship to the product deliverables...The WBS elements should collectively provide a complete definition of work scope requirements."

description of change and sections affected	date prepared	prepared by	date approved	approved by
Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank
	Updated for release. See track changes. Updated for release. See itemized revision list. Updated for release. None. Updated through 2019-03-13. Minor corrections.	Updated for release. See track changes.2022-01-21Updated for release. See itemized revision list.2020-02-10Updated for release. None.2019-07-31Updated through 2019-03-13. Minor corrections.2019-03-13	Updated for release. See track changes.2022-01-21PM-30Updated for release. See itemized revision list.2020-02-10PM-30Updated for release. None.2019-07-31PM-30Updated through 2019-03-13. Minor corrections.2019-03-13PM-30	Updated for release. See track changes. 2022-01-21 PM-30 2022-01-21 Updated for release. See itemized revision list. 2020-02-10 PM-30 2020-02-10 Updated for release. None. 2019-07-31 PM-30 2019-07-31 Updated through 2019-03-13. Minor corrections. 2019-03-13 PM-30 2019-03-14

1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency	
A	A.03.01 (02.01.01) (7)	manual	monthly	
5. Attribute				
Organizational Breakdown Stru	ucture (OBS)			
6. Metric Intent				
	thorized work is assigned to orgar ollar values, and ensures that orga			
7. Metric Short Description	on			
DB, IPMR F2 <> dollarized RA	Μ			а
8. Metric				
X = Number of CA WBSs in t IPMR F2 DB.	he RAM, where RAM CA CAM <>	WBS index CAM or RAM CA	DB <> IPMR F1 DB or RAM C	BS DB <>
Y = Number of CA WBSs in t	he RAM.			
9. Max. Threshold	10. Max. Tolerance	11. Weight		
0	1000	1.4		
12. Needed Artifacts and	Data Elements			
<u>Y artifact(s)</u> FF01_{WBS} FF08_{IPMR_F1} FF09_{IPMR_F2}	<u>X artifact(s)</u> RAM	<u>FF data elements</u> FF01_{WBS}_[I]_CAM FF08_{IPMR_F1}_[J]_BA FF09_{IPMR_F2}_[J]_BA		
···(······_·_)				
13. Assumptions 14. Instructions				
13. Assumptions	ne following.			Y
13. Assumptions14. InstructionsDetermine Y items based on the	<u>ie following.</u> ,RAM CA DB,RAM OBS DB items	and, if identified, with the follow	ing characteristics.	Y qualifier
13. Assumptions 14. Instructions Determine Y items based on the Count RAM CA,RAM CA CAM Determine X items, a subset of Identify FF01_{WBS}_[I]_CAM	,RAM CA DB,RAM OBS DB items		Ū	
 13. Assumptions 14. Instructions Determine Y items based on the Count RAM CA, RAM CA CAM Determine X items, a subset of Identify FF01_{WBS}_[I]_CAM characteristics. Count flagged items based on RAM CA CAM <> FF01_{WE OR RAM CA DB <> FF08_{IPMF 	,RAM CA DB,RAM OBS DB items <u>f Y, based on the following.</u> ,FF08_{IPMR_F1}_[J]_BAC,FF09_ the following operation(s). 3S}_[I]_CAM		Ū	qualifier X
 13. Assumptions 14. Instructions Determine Y items based on the Count RAM CA, RAM CA CAM Determine X items, a subset of Identify FF01_{WBS}_[I]_CAM characteristics. Count flagged items based on RAM CA CAM <> FF01_{WE OR 	,RAM CA DB,RAM OBS DB items <u>FY, based on the following.</u> ,FF08_{IPMR_F1}_[J]_BAC,FF09_ the following operation(s). 3S}_[I]_CAM R_F1}_[J]_BAC IR_F2}_[J]_BAC		Ū	qualifier X qualifier qualifier

15. Reference(s)

Page 6, Typical Attribute(s): "All authorized work is assigned to organizational elements." "Organization elements are work teams, functions, or whatever organization units are used by the company for execution of the program work efforts."

Page 6, Intent: "The assignment of lower-level work segments to responsible managers should provide key control points for management purposes."

EIA-748D, page 5, section 2.1 (b): "Identify the program organizational structure, including the major subcontractors, responsible for accomplishing the authorized work, and define the organizational elements in which work will be planned and controlled."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE EVMS	Metric Specificati	ion
1. Process Category	2. Metric ID (new, ol	d) 3. Method	4. Frequency
A	A.04.01 (03.01.01) (8) automated/manual verification	on monthly
5. Attribute			
Integrated System with Comm	non Structures		
6. Metric Intent			
other as appropriate, via com total project level. This metric	mon data elements and a comr	dule and cost system ensures that the	and the OBS at the WP level through the
7. Metric Short Descript	ion		
labor % complete, FC IMS <>	EVMS cost tool		a
8. Metric			
X = Number of incomplete V	VP WBSs in the FC IMS, when	e FC IMS labor % complete <> EVMS	S cost tool labor % complete.
Y = Number of incomplete V	VP WBSs in the FC IMS.		
9. Max. Threshold	10. Max. Tolerance	11. Weight	
5.0%	0.001	2.3	
12. Needed Artifacts an	d Data Elements		
<u>Y artifact(s)</u> FF04_{schedule} FF03_{cost}	<u>X artifact(s)</u> FF04_{schedule} FF03_{cost} data presented by CAM	FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[O]_DB FF03_{cost}_[P]_BCWPc FF04_{schedule}_[C]_sched FF04_{schedule}_[C]_task_f FF04_{schedule}_[G]_WBS FF04_{schedule}_[T]_AS_da FF04_{schedule}_[U]_AF_da FF04_{schedule}_[AE]_cum FF04_{schedule}_[AF]_BAC	dule_type type ate _BCWP

13. Assumptions

14. Instructions	
Determine Y items based on the following.	Y
Count FF04_{schedule}_[G]_WBS items and, if identified, with the following characteristics.	qualifier
 FF03_{cost}_[G]_WBS_type = WP 	WBS type
 FF04 {schedule} [C] schedule_type = FC 	sch. type
 IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null OR 	incomplete
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null	
Determine X items, a subset of Y, based on the following.	x
Identify FF04 {schedule} [G] WBS,FF03 {cost} [D] WBS and, if identified, with the following characteristics.	qualifier
Count flagged items based on the following operation(s).	qualifier
 FF04_{schedule}_[AE]_cum_BCWP / FF04_{schedule}_[AF]_BAC <> FF03_{cost}_[P]_BCWPc / FF03_{cost}_[O]_DB 	operation
Conduct the following manual operation(s).	manual
 1. IMS % complete for non-labor EOCs <> EVMS cost tool % complete for non-labor by WBS. 2. The CAM cannot demonstrate FC IMS % complete by WBS. 	operation
Determine if X or X/Y exceeds the threshold.	

15. Reference(s)

Page 6, Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data element"

Page 6, Intent: "The work tasks are assigned to a WBS and OBS and are traceable to the planning and budgeting system and the cost collection system. Establishment of a unique coding structure facilitates the linkage between the planning, scheduling, budgeting, work authorization, cost accumulation, and performance measurement processes."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification					
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency		
A	A.04.02 (03.01.02) (9) automated	monthly		
5. Attribute					
Integrated System with Common	Structures				
6. Metric Intent					
as appropriate, via common data	elements and a common codir with the integration of the sche	ng structure through the WBS a edule system and cost system	umulation systems integrated with each other and the OBS at the WP and PP levels through ensures that project schedule start and finish e work.		
7. Metric Short Description	1				
start or finish dates, BL IMS <> E	EVMS cost tool		а		
8. Metric					
	or PP WBSs in the BL IMS, w	here BL IMS start or finish d	ates <> EVMS cost tool start or finish dates		
Y = Number of incomplete WP					
9. Max. Threshold	10. Max. Tolerance	11. Weight			
0		2.3			
12. Needed Artifacts and D	ata Elements				
<u>Y artifact(s)</u> FF04_{schedule} FF03_{cost}	<u>X artifact(s)</u> FF04_{schedule} FF03_{cost}	FF data elements FF03_{cost}_[C]_period FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS FF03_{cost}_[G]_WBS FF04_{cost}_[K]_inc_B FF04_{schedule}_[C]_s FF04_{schedule}_[E]_t FF04_{schedule}_[G]_ FF04_{schedule}_[M]_ FF04_{schedule}_[T]_/ FF04_{schedule}_[U]_/	type GCWS_dollars schedule_type task_type WBS ES_date [period] EF_date [period] AS_date		
13. Assumptions					
14. Instructions					
Determine Y items based on the	following.		Ŷ		
Count FF04_{schedule}_[G]_WB • FF03_{cost}_[G]_WBS_type = • FF04_{schedule}_[C]_schedul • FF04_{schedule}_[E]_task_typ • IF FF04_{schedule}_[D]_task_	S items and, if identified, with the WP or PP e_type = BL be <> M or SVT or ZBA or SM ID IS IN FF04_{schedule}_[C]_		qualifier WBS type sch. type task type incomplete		
OR IF FF04_{schedule}_[E]_task_ IF FF04_{schedule}_[D]_task_ FROM FF04_{schedule}_[C]_task_ IF FF04_{schedule}_[E]_task_ FF04_{schedule}_[B]_CPP_sta OR	_type = M THEN FF04_{schedu _type <> M THEN FF04_{sched ID IS NOT IN FF04_{schedule} schedule_type = BL _type = M THEN FF04_{schedule}_[atus_date < FF04_{schedule}_[ule}_[U]_AF_date = null _[C]_schedule_type = FC ule}_[B]_CPP_status_date < FI L]_ES_date	F04_{schedule}_[T]_AS_date = null F04_{schedule}_[M]_EF_date OR FF04_{schedule}_[M]_EF_date		

Determine X items, a subset of Y, based on the following.

 Identify FF04_{schedule}_[G]_WBS,FF03_{cost}_[D]_WBS and, if identified, with the following characteristics.
 qualifier

 Count flagged items based on the following operation(s).
 qualifier

 EE04_(appendule)_[L]_ES_date [period] <> EE03_(cost)_[C]_period_date where first EE03_(cost)_[K] inc. BCWS_dellare <>

FF04_{schedule}_[L]_ES_date [period] <> FF03_{cost}_[C]_period_date where first FF03_{cost}_[K]_inc_BCWS_dollars <> 0/null
OR

FF04_{schedule}_[M]_EF_date [period] <> FF03_{cost}_[C]_period_date where last FF03_{cost}_[K]_inc_BCWS_dollars <> 0/null

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 7, Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data elements."

х

Page 7, Intent: "Integrate the technical, schedule, and cost elements of the project through project plans that include schedules, budgets, authorization of work, and accumulation of costs, all consistent with the budget plan."

16. Rev	16. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank			
V03.00	Updated for release. See itemized revision list. New metric, BL.	2020-02-10	PM-30	2020-02-10	Melvin Frank			
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank			
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank			
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank			

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
А	A.04.03	(03.01.03) (10)	automated	monthly
• • • • • •				

5. Attribute

Integrated System with Common Structures

6. Metric Intent

This metric confirms that the planning, scheduling, budgeting, work authorization and cost accumulation systems integrated with each other as appropriate, via common data elements and a common coding structure through the WBS and the OBS at the CA level (at a minimum) through the total project level. This metric with the integration of the schedule system and cost system ensures that project schedule start, actual start, and schedule finish date information align to corresponding cost system time-phased ETC and ACWP information for all incomplete work by EOC.

7. Metric Short Description

start or finish dates by EOC, FC IMS <> EVMS cost tool

8. Metric

X = Number of incomplete WP or PP WBSs by EOC in the FC IMS, where FC IMS start, actual start, or finish dates <> EVMS cost tool start, actual start, or finish dates.

Y = Number of incomplete WP or PP WBSs by EOC in the FC IMS. Conduct at the CA level if ACWP is at the CA WBS level.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		2.3
12. Needed Artifacts and D	ata Elements	
<u>Y artifact(s)</u> FF04_{schedule} FF03_{cost}	<u>X artifact(s)</u> FF04_{schedule} FF03_{cost}	FF data elements FF03_{cost}_[C]_period_date FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[G]_wBS_type FF03_{cost}_[L]_inc_BCWS_dollars FF03_{cost}_[L]_inc_BCWP_dollars FF03_{cost}_[M]_inc_ACWP_dollars FF03_{cost}_[N]_inc_ETC_dollars FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[G]_WBS FF04_{schedule}_[G]_WBS FF04_{schedule}_[M]_EF_date [period] FF04_{schedule}_[M]_EF_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[U]_AF_date FF06_{schedule}_resources}_[C]_schedule_type FF06_{schedule}_resources}_[E]_task_ID FF06_{schedule}_resources}_[H]_EOC
42 Assumptions		

13. Assumptions

ACWPs are collected at the WP level. If ACWPs are collected at the CA level, test needs to be conducted at CA level.

14. Instructions

Determine Y items based on the following.	Y
Count FF04_{schedule}_[G]_WBS by FF06_{schedule_resources}_[H]_EOC items and, if identified, with the following characteristics.	qualifier
 FF03_{cost}_[G]_WBS_type = WP or PP or CA (if ACWP at CA) 	WBS type
 FF04_{schedule}_[C]_schedule_type = FC,FF06_{schedule_resources}_[C]_schedule_type=FC 	sch. type
 FF04_{schedule}_[E]_task_type <> M or SVT or ZBA or SM 	task type
 IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null OR 	incomplete
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null	
Determine X items, a subset of Y, based on the following.	x
Identify FF03_{cost}_[D]_WBS by FF03_{cost}_[E]_EOC,FF04_{schedule}_[G]_WBS and, if identified, with the following characteristics.	qualifier
Count flagged items based on the following operation(s).	qualifier
 first of (FF04_{schedule}_[T]_AS_date (IF FF04_{schedule}_[T]_AS_date = null) OR FF04_{schedule}_[L]_ES_date [period] (IF FF04_{schedule}_[T]_AS_date <> null)) <> first of (ETC (IF FF03_{cost}_[M]_inc_ACWP_dollars = null OR FF03_{cost}_[L]_inc_BCWP_dollars = null) OR first of FF03_{cost}_[M]_inc_ACWP_dollars or FF03_{cost}_[L]_inc_BCWP_dollars (IF FF03_{cost}_[M]_inc_ACWP_dollars <> null OR FF03_{cost}_[L]_inc_BCWP_dollars (IF FF03_{cost}_[M]_inc_ACWP_dollars <> null OR FF03_{cost}_[L]_inc_BCWP_dollars (IF FF03_{cost}_[M]_inc_ACWP_dollars <> null OR FF03_{cost}_[L]_inc_BCWP_dollars <> null)) 	operation

last of (FF04_{schedule}_[U]_AF_date (IF FF04_{schedule}_[U]_AF_date <> null) OR FF04_{schedule}_[M]_EF_date [period] (IF FF04_{schedule}_[U]_AF_date = null)) <> last FF03_{cost}_[N]_inc_ETC_dollar

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 7, Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data elements."

Page 7, Intent: "Integrate the technical, schedule, and cost elements of the project through project plans that include schedules, budgets, authorization of work, and accumulation of costs, all consistent with the budget plan."

Page 12, Typical Attribute(s): "Resource estimates from the budget plan are reasonable and resources are available to support the schedule."

Page 44, Typical Attribute(s): "Control account manager should generate the Estimate to Complete (ETC) at the work package and planning package level. The sum of the control account manager's work package and planning package ETCs are added to the control account actual cost to develop the control account EAC. Control account EACs are summarized through the WBS and OBS to the program and contract level."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Combined IDs 03.01.02 and 03.01.03 metrics, FC.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

			and Specific	ation
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency
A	A.04.04	(03.01.04) (11)	automated	monthly
5. Attribute				
Integrated System with Comm	non Structures			
6. Metric Intent				
as appropriate, via common d	ata elements and a o This metric with the	common coding st integration of the	ructure through the WBS a cost system and work auth	umulation systems integrated with each othe and the OBS at the CA level (at a minimum) norization ensures that cost system BL start on for all incomplete CAs.
7. Metric Short Descript	ion			
start or finish dates, EVMS co	st tool <> WAD			а
8. Metric				
X = Number of incomplete C	A WBSs in the EVM	IS cost tool, whe	re EVMS cost tool start	or finish dates <> WAD start or finish date
Y = Number of incomplete C	A WBSs in the EVM	IS cost tool.		
9. Max. Threshold	10. Max. To	lerance	11. Weight	
5.0%			2.3	
12. Needed Artifacts and	d Data Elements			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF13_{WAD} FF03_{cost}		FF data elements FF03_{cost}_[C]_period FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS FF03_{cost}_[K]_inc_B FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWI FF13_{WAD}_[C]_WBS FF13_{WAD}_[J]_POP FF13_{WAD}_[K]_POF	 _type CWS_dollars Pc _start_date [period]
13. Assumptions				
14. Instructions				
Determine Y items based on t	the following.			Ŷ
Count FF03_{cost}_[D]_WBS		ed, with the followi	ng characteristics.	qualifier

•	FF03	{cost}	[G]	WBS	type = CA
	1100	JUUSIA	101	VVD0	iype = OA

FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB

Determine X items, a subset of Y, based on the following.

 Identify FF13_{WAD}_[C]_WBS and, if identified, with the following characteristics.
 qualifier

 Count flagged items based on the following operation(s).
 qualifier

 • FF03_{cost}_[C]_period_date where FF03_{cost}_[K]_inc_BCWS_dollars is earliest <> FF13_{WAD}_[J]_POP_start_date
 operation

 [period]
 operation
 operation

ÖR

FF03_{cost} [C]_period_date where FF03_{cost} [K]_inc_BCWS_dollars is latest <> FF13_{WAD} [K]_POP_finish_date [period]

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 7, Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data elements."

Page 7, Intent: "Integrate the technical, schedule, and cost elements of the project through project plans that include schedules, budgets, authorization of work, and accumulation of costs, all consistent with the budget plan."

16. Revision Block

cted date prepared	prepared by	date approved	approved by
2022-01-21	PM-30	2022-01-21	Melvin Frank
a list. 2020-02-10	PM-30	2020-02-10	Melvin Frank
2019-07-31	PM-30	2019-07-31	Melvin Frank
ctions. 2019-03-13	PM-30	2019-03-14	Melvin Frank
2019-01-31	PM-30	2019-01-31	Melvin Frank
	2022-01-21 2020-02-10 2019-07-31 2019-03-13	2022-01-21 PM-30 2020-02-10 PM-30 2019-07-31 PM-30 2019-03-13 PM-30	2022-01-21 PM-30 2022-01-21 Ilist. 2020-02-10 PM-30 2020-02-10 2019-07-31 PM-30 2019-07-31 ctions. 2019-03-13 PM-30 2019-03-14

WBS type

incomplete

x

			•	
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
A	A.04.05	(03.01.05) (12)	automated	monthly
5. Attribute				
Integrated System with Comm	on Structures			
6. Metric Intent				
as appropriate, via common d through the total project level. value information align to corre	ata elements and This metric with t esponding work a	a common coding s he integration of the	tructure through the WBS cost system and work au	ccumulation systems integrated with each other and the OBS at the CA level (at a minimum) athorization ensures that cost system BAC dollar all incomplete CAs.
7. Metric Short Descripti	on			
DB, EVMS cost tool <> WAD				a
8. Metric				
X = Number of incomplete C	A WBSs in the E	VMS cost tool, who	ere EVMS cost tool DB <	<> WAD budget.
Y = Number of incomplete C	A WBSs in the E	VMS cost tool.		
	40 14.		44 104 - 1-1-4	

9. Max. Threshold	10. Max. Tolerance	11. Weight
5.0%	1000	2.3
12. Needed Artifacts and Da	ta Elements	
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF13_{WAD} FF03_{cost}	<u>FF data elements</u> FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc FF13_{WAD}_[C]_WBS FF13_{WAD}_[H]_budget_dollars
13. Assumptions		

14. Instructions	
Determine Y items based on the following.	Y
Count FF03 {cost} [D] WBS items and, if identified, with the following characteristics.	qualifier
 FF03_{cost}_[G]_WBS_type = CA 	WBS type
 FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB 	incomplete
Determine X items, a subset of Y, based on the following.	x
Identify FF13_{WAD}_[C]_WBS and, if identified, with the following characteristics.	qualifier
Count flagged items based on the following operation(s).	qualifier
 FF03_{cost}_[K]_DB <> FF13_{WAD}_[H]_budget_dollars 	operation
Determine if X or X/Y exceeds the threshold	

the threshold.

15. Reference(s)

Page 7, Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data elements."

Page 7, Intent: "Integrate the technical, schedule, and cost elements of the project through project plans that include schedules, budgets, authorization of work, and accumulation of costs, all consistent with the budget plan."

16. Rev	16. Revision Block						
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by		
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank		
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank		
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank		
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank		
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank		

1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency
A	A.04.08 (03.01.08) (¹	13) automated	monthly
5. Attribute			
Integrated System with Comm	on Structures		
6. Metric Intent			
as appropriate, via common d	ata elements and a common codi This metric compares the count	ng structure through the WBS and	ulation systems integrated with each other the OBS at the CA level (at a minimum) RAM budget values to the IPMR F1 budge
7. Metric Short Descripti	on		
DB, cost tool <> IPMR F1			а
8. Metric			
X = Number of CA WBSs in t	the WBS index, where cost tool	DB <> IPMR F1 DB.	
Y = Number of CA WBSs in t	the WBS index.		
9. Max. Threshold	10. Max. Tolerance	11. Weight	
0	1000	2.3	
12. Needed Artifacts and	l Data Elements		
<u>Y artifact(s)</u> FF01_{WBS}	<u>X artifact(s)</u> FF03_{cost} FF08_{IPMR_F1}	<u>FF data elements</u> FF01_{WBS}_[C]_WBS FF01_{WBS}_[G]_WBS_ty FF03_{cost}_[D]_WBS FF03_{cost}_[K]_DB FF08_{IPMR_F1}_[C]_WB	
		FF08_{IPMR_F1}_[J]_BAC	
13. Assumptions			
13. Assumptions 14. Instructions			
14. Instructions	<u>ne following.</u>		
- 14. Instructions Determine Y items based on t Count FF01_{WBS}_[C]_WBS	items and, if identified, with the f	FF08_{IPMR_F1}_[J]_BAC	C Y qualifier
14. Instructions <u>Determine Y items based on t</u> Count FF01_{WBS}_[C]_WBS FF01_{WBS}_[G]_WBS_typ	δ items and, if identified, with the f be = CA	FF08_{IPMR_F1}_[J]_BAC	C Y qualifier WBS type
14. Instructions Determine Y items based on t Count FF01_{WBS}_[C]_WBS • FF01_{WBS}_[G]_WBS_typ Determine X items, a subset c	B items and, if identified, with the f be = CA of Y, based on the following.	FF08_{IPMR_F1}_[J]_BAC	C Y qualifier WBS type X
14. Instructions Determine Y items based on t Count FF01_{WBS}_[C]_WBS • FF01_{WBS}_[G]_WBS_typ Determine X items, a subset c Identify FF08_{IPMR_F1}_[C]	b items and, if identified, with the f be = CA <u>of Y, based on the following.</u> _WBS,(FF03_{cost}_[D]_WBS) an	FF08_{IPMR_F1}_[J]_BAC	C Y qualifier WBS type X
14. Instructions Determine Y items based on t Count FF01_{WBS}_[C]_WBS • FF01_{WBS}_[G]_WBS_typ Determine X items, a subset c	B items and, if identified, with the f be = CA of <u>Y, based on the following.</u> _WBS,(FF03_{cost}_[D]_WBS) and the following operation(s).	FF08_{IPMR_F1}_[J]_BAC	C v qualifier WBS type x haracteristics.

15. Reference(s)

Page 7, Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data elements."

Page 7, Intent: "The work tasks are assigned to a WBS and OBS and are traceable to the planning and budgeting system and the cost collection system. Establishment of a unique coding structure facilitates the linkage between the planning, scheduling, budgeting, work authorization, cost accumulation, and performance measurement processes."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. Removed metric.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE E	VMS Me	tric Specific	ation	
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
A	A.04.09	(03.01.09) (14)	automated	monthly	
5. Attribute					
Integrated System with Common	Structures				
6. Metric Intent					
This metric confirms that the plan as appropriate, via common data through the total project level. Thi coding structure information align	elements and a disin the	common coding st integration of the	ructure through the WBS a schedule system and cost	and the OBS at the CA level (at a system ensures that schedule system	minimum)
7. Metric Short Description	1				
WBS identifier in BL IMS not in E	VMS cost tool				а
8. Metric					
X = Number of WBSs in the BL	IMS, where BL I	MS WBS identifie	er not in EVMS cost tool.		
Y = Number of WBSs in the BL	IMS.				
9. Max. Threshold	10. Max. To	lerance	11. Weight		
0			2.3		
12. Needed Artifacts and D	ata Elements				
Y artifact(s)	X artifact(s)		FF data elements		
FF04_{schedule}	FF03_{cost}		FF03_{cost}_[D]_WBS FF04_{schedule}_[C]_s FF04_{schedule}_[G]_\		
13. Assumptions					
14. Instructions					
Determine Y items based on the t	followina.				Y
Count FF04_{schedule}_[G]_WB		entified, with the fo	llowing characteristics.		qualifier
 FF04_{schedule}_[C]_schedule 					sch. type
 FF04_{schedule}_[E]_task_typ 	be <> M or SVT o	ZBA or SM			task type
Determine X items, a subset of Y					x
	nd, if identified, wi	-	naracteristics.		qualifier
	6 11 1				quaimer
Count flagged items based on the	e following operat	ion(s).			operation
Identify FF03_{cost}_[D]_WBS ar Count flagged items based on the • FF03_{cost}_[D]_WBS = null Determine if X or X/Y exceeds the		ion(s).			operation

Page 7, Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data elements."

Page 7, Intent: "The work tasks are assigned to a WBS and OBS and are traceable to the planning and budgeting system and the cost collection system. Establishment of a unique coding structure facilitates the linkage between the planning, scheduling, budgeting, work authorization, cost accumulation, and performance measurement processes."

16. Rev	16. Revision Block					
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by	
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank	
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank	
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank	
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank	
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank	

	DOE EVMS M	etric Specif	ication
у	2. Metric ID (new, old)	3. Method	4. Frequen

1. Process Category (01.02.02) (15) A.05.01

automated/manual

ncy

initially & semi-annually to align with horizon planning increments

5. Attribute

Control Account (CA) to Organizational Element

6. Metric Intent

This metric confirms that the WBS includes all authorized project work scope and any revisions resulting from authorized changes and modifications. This metric looks for material differences between the published WBS identifiers and descriptions and the technical explanations provided by CAM during discussions.

7. Metric Short Description

WBS descriptions, dictionary <> CAM

8. Metric

X = Number of WBS identifiers in the WBS dictionary, where descriptions <> descriptions provided by CAM during discussions.

Y = Number of WBS identifiers in the WBS dictionary.

9. Max. Threshold	10. Max. Tolerance	11. Weight	
0		1.8	
12. Needed Artifacts a	nd Data Elements		

Y artifact(s)	X artifact(s)	<u>FF dat</u>
FF01 {WBS}	WBS dictionary	FF01
	data presented by CAM	FF01
		FF01

ata elements _{WBS}_[C]_WBS _{WBS}_[D]_title _{WBS}_[E]_level FF01_{WBS}_[G]_WBS_type FF01_{WBS}_[J]_WBS_narrative

13. Assumptions

14. Instructions	
Determine Y items based on the following.	Y
Count FF01_{WBS}_[C]_WBS items and, if identified, with the following characteristics.	qualifier
 FF01_{WBS}_[D]_title <listing></listing> 	other 1
 FF01_{WBS}_[J]_WBS_narrative <listing></listing> 	other 2
FF01 {WBS} [E] level <listing></listing>	other 3
 FF01_{WBS}_[G]_WBS_type <listing></listing> 	other 4
Determine X items, a subset of Y, based on the following.	x
Manually count flagged items based on the following operation(s).	qualifier
 WBS identifiers and descriptions provided by CAM <> WBS dictionary. 	operation
Conduct the following manual operation(s).	manual
Verify manually against the WBS dictionary.	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 4, Typical Attribute(s): "Only one WBS is used per project and it contains all project work, including revisions for authorized changes and modifications."

Page 4, Typical Attribute(s): "The WBS elements should collectively provide a complete definition of work scope requirements."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE	EVMS Me	tric Specific	ation
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
A	A.05.02	(05.01.01) (16)	automated	monthly
5. Attribute				
Control Account (CA) to Orga	nizational Elemen	t		
6. Metric Intent				
This metric confirms that each that each CA does not have n				onsible for the work scope. This metric ensures
7. Metric Short Descript	ion			
CA does not have just 1 respo	onsible organizatio	on		a
8. Metric				
X = Number of CA WBSs in	the WBS index, v	where WBS does no	t have just 1 responsible	e organization.
Y = Number of CA WBSs in	the WBS index.			
9. Max. Threshold	10. Max. '	Tolerance	11. Weight	
0			1.8	
12. Needed Artifacts and	d Data Elemen	ts		
<u>Y artifact(s)</u> FF01_{WBS}	<u>X artifact(s)</u> FF01_{WBS		<u>FF data elements</u> FF01_{WBS}_[C]_WB3 FF01_{WBS}_[G]_WB3 FF01_{WBS}_[H]_OB3	S_type
13. Assumptions				
14. Instructions				
Determine Y items based on t Count FF01_{WBS}_[C]_WBS • FF01 {WBS} [G] WBS ty	S items and, if ider	ntified, with the follow	ing characteristics.	Y qualifier WBS type
Determine X items, a subset of		following.		x
Identify FF01_{WBS}_[C]_WB		<u> </u>	haracteristics.	qualifier
Count flagged items based on	0,	eration(s).		qualifier
FF01_{WBS}_[H]_OBS cou				operation
Determine if X or X/Y exceeds	s the threshold.			

15. Reference(s)

Page 9, Intent: "The control account is the point where the WBS tasks and OBS responsibility intersect. It is defined as the point where a single functional organization or integrated product team has responsibility for work defined to a single WBS element. There may be multiple control accounts within a responsible OBS element when the effort within a WBS element must be segregated for management control purposes driven by scope and exit criteria (i.e., completion of task scope)."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DUE		tric Specificatio	n	
1. Process Category A	2. Metric II A.05.03) (new, old) (05.01.02) (17)	3. Method automated	4. Frequency monthly	
5. Attribute					
Control Account (CA) to Organiz	ational Element				
6. Metric Intent					
This metric confirms that each C CA does not have more than 1 V			ent directly responsible for the wor	k scope. This metric ensu	ures that eac
7. Metric Short Description	n				
CA is not assigned just 1 WBS in	n EVMS cost tool				а
8. Metric					
X = Number of CA WBSs in the	e WBS index, wl	nere CA does not h	ave just 1 assignment in the EV	/MS cost tool.	
Y = Number of CA WBSs in the	e WBS index.				
9. Max. Threshold	10. Max. To	olerance	11. Weight		
0			1.8		
12. Needed Artifacts and I	Data Elements	5			
<u>Y artifact(s)</u> FF01_{WBS}	<u>X artifact(s)</u> FF03_{cost}		<u>FF_data_elements</u> FF01_{WBS}_[G]_WBS_type FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type		
13. Assumptions					
14. Instructions					
<u>Determine Y items based on the following.</u> Count FF01_{WBS}_[G]_WBS_type items and, if identified, with the following characteristics. • FF01 {WBS} [G]_WBS_type = CA					Y qualifier WBS type
Determine X items, a subset of Y, based on the following. dentify FF03_{cost}_[G]_WBS_type and, if identified, with the following characteristics. FF03_{cost}_[G]_WBS_type = CA Count flagged items based on the following operation(s). FF03_{cost}_[D]_WBS = 0/null OR					
FF03_{cost}_[D]_WBS count	> 1				

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 9, Intent: "The control account is the point where the WBS tasks and OBS responsibility intersect. It is defined as the point where a single functional organization or integrated product team has responsibility for work defined to a single WBS element. There may be multiple control accounts within a responsible OBS element when the effort within a WBS element must be segregated for management control purposes driven by scope and exit criteria (i.e., completion of task scope)."

16. Rev	vision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric	Specification
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	DOE		and Specifical		and the second
1. Process Category	2. Metric ID (new, old)		3. Method	4. Frequency	
4	A.05.04	(05.02.01) (18)	automated/manual	quarterly	
5. Attribute					
Control Account (CA) to Organi	izational Element				
6. Metric Intent					
This metric confirms that the C/ verifies that the CAM is the san					. This metric
. Metric Short Description	on				
CAM, BCR <> WAD					
8. Metric					
K = Number of BCRs in the cl	hange control lo	g, where CAM who	signed the BCR <> WAD C	AM in the WAD.	
I = Number of BCRs in the cl	hange control lo	g.			
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0			1.8		
2. Needed Artifacts and	Data Element	S			
=F11_{CC_log} =F12_{CC_log_detail} =F01_{WBS} =F13_{WAD}	<u>X artifact(s)</u> FF01_{WBS BCR	}	FF01_{WBS}_[C]_WBS FF01_{WBS}_[I]_CAM FF11_{CC_log}_[C]_BCR_ FF11_{CC_log}_[D]_appro FF12_{CC_log_detail}_[D] FF12_{CC_log_detail}_[E] FF13_{WAD}_[C]_WBS FF13_{WAD}_[E]_CAM CPP-1_FF11_{CC_log}_[E]	ved_date _BCR_ID _WBS	
13. Assumptions					
Test is for BCPs for the period.					
4. Instructions					
Determine Y items based on the Count FF11_{CC_log}_[C]_BCR_ID,FI FF13_{WAD}_[C]_WBS) items	F12_{CC_log_de and, if identified,	with the following ch	naracteristics.	S,FF01_{WBS}_[C]_WBS,	Y qualifier other 1
FF11_{CC_log}_[D]_approve FF12_{CC_log_detail}_[E]_V FF01_{WBS}_[I]_CAM <listir< td=""><td>VBS <listing></listing></td><td>_++11_{СС_log}_[В</td><td></td><td></td><td>other 2 other 3</td></listir<>	VBS <listing></listing>	_++11_{СС_log}_[В			other 2 other 3
FF13_{WAD}_[E]_CAM <listi< td=""><td>0</td><td></td><td></td><td></td><td>other 4</td></listi<>	0				other 4
Determine X items, a subset of Manually count flagged items b FF01_{WBS}_[I]_CAM <> BC OR FF13_{WBS}_[E]_CAM <> B	ased on the follo CR_CAM_signatu	wing operation(s). Ire			X qualifier operation
<u>Determine if X or X/Y exceeds t</u>	<u>the threshold.</u>				

Page 9, Intent: "The control account is also the primary point for work authorization, work performance management, and work performance measurement; i.e., where planned value is established, earned value is assessed, and actual costs are collected. Each control account is assigned to a control account manager. The control account manager has the responsibility, authority, and accountability to ensure the accomplishment of work in their control account and is the focal point for management control."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE	EVMS Me	tric Specific	cation	
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
A	A.05.05	(05.03.01) (19)	automated	monthly	
5. Attribute					
Control Account (CA) to Orga	nizational Elemen	t			
6. Metric Intent					
This metric confirms that there than 1 CAM.	e is only one CAM	assigned to each CA	A. This metric examines t	he dollarized RAM to identify CAs list	ting more
7. Metric Short Descript	ion				
CA does not have just 1 CAM	assigned				a A
8. Metric					
X = Number of CA WBSs in	the WBS index, v	vhere CA does not l	nave just 1 CAM in the I	EVMS cost tool.	
Y = Number of CA WBSs in	the WBS index.				
9. Max. Threshold	10. Max. 1	Folerance	11. Weight		
0			1.8		
12. Needed Artifacts and	d Data Elemen	ts			
<u>Y artifact(s)</u> FF01_{WBS}	<u>X artifact(s)</u> FF01_{WBS		<u>FF data elements</u> FF01_{WBS}_[C]_WE FF01_{WBS}_[G]_WE FF01_{WBS}_[I]_CAM	3S_type	
13. Assumptions					
14. Instructions					
Determine Y items based on t	he following.				Y
Count FF01_{WBS}_[C]_WBS		ntified, with the follow	ing characteristics.		qualifier WBS type
 FF01_{WBS}_[G]_WBS_typ 					
Determine X items, a subset of Identify FF01 {WBS} [C] WB			haractoristics		X qualifier
Count flagged items based on		•	กลาสมเยกรแบร.		qualifier
 FF01_{WBS}_[I]_CAM could 	• •	· /			operation
Determine if X or X/Y exceeds	s the threshold.				

15. Reference(s)

Page 9, Intent: "Each control account is assigned to a control account manager."

16. Rev	16. Revision Block						
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by		
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank		
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V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank		
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank		
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank		

DOE EVMS Metric Specification							
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency			
A	A.05.06	(05.04.01) (20)	automated	quarterly			
5. Attribute							
Control Account (CA) to Orga	nizational Elemen	t					
6. Metric Intent							
	es that the identific			ontrol and analysis needed to manag of management is based on the corr	•		
7. Metric Short Descript	ion						
CAM or DB, WAD <> dollarize	ed RAM				а		
8. Metric							
X = Number of incomplete V	VADs, where WA	D CAM or budget <	> dollarized RAM CAM o	or DB.			
Y = Number of incomplete V	VADs.						
9. Max. Threshold	10. Max. 1	Folerance	11. Weight				
0	1000		1.8				
12. Needed Artifacts and	d Data Element	ts					
<u>Y artifact(s)</u> FF13_{WAD} FF03_{cost}	<u>X artifact(s)</u> FF01_{WBS FF03_{cost} FF13_{WAD		FF data elements FF01_{WBS}_[C]_WE FF01_{WBS}_[I]_CAN FF03_{cost}_[D]_WE FF03_{cost}_[G]_WE FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCW FF13_{WAD}_[C]_WE FF13_{WAD}_[E]_CA FF13_{WAD}_[H]_buc	/ S S_type /Pc 3S M			
13. Assumptions							
14. Instructions							
Determine Y items based on t Count FF13_{WAD}_[C]_WBS • FF03_{cost}_[G]_WBS_typ • FF03_{cost}_[L]_BCWPc <	S,FF03_{cost}_[D] e = CA FF03_{cost}_[K]_	DB	dentified, with the followin	g characteristics.	Y qualifier WBS type incomplete		
Determine X items, a subset of	of Y, based on the	following.			x		

Identify FF01_{WBS}_[C]_WBS,FF13_{WAD}_[C]_WBS,FF03_{cost}_[D]_WBS and, if identified, with the following characteristics. Count flagged items based on the following operation(s). • FF13_{WAD}_[E]_CAM <> FF01_{WBS}_[I]_CAM

OR

F13_{WAD}_[H]_budget_dollars <> FF03_{cost}_[K]_DB

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 9, Management Value: "The careful establishment of the control account structure ensures the proper level of management is established based on the complexity of the work and the capability of the organization."

Page 9, Intent: "The establishment of multiple control accounts should be determined by the control account's scope of the management tasks and consideration for planning and control of budgets, schedules, work assignments, progress assessment, problem identification, and corrective actions."

Page 9, Intent: "Each control account is assigned to a control account manager. The control account manager has the responsibility, authority, and accountability to ensure the accomplishment of work in their control account and is the focal point for management control."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

qualifier

qualifier

operation

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
A	A.05.07	(05.04.02) (21)	automated	quarterly

5. Attribute

Control Account (CA) to Organizational Element

6. Metric Intent

This metric confirms that CAs are established based on the complexity of the work, and the control and analysis needed to manage the work effectively. This metric ensures that the identification of the CA structure and the proper level of management is based on the complexity of the work and the capability of the organization. The metric ensures there are no open CAs with budget values > 7% of the PMB work remaining and period BCWS with 3 consecutive period SV or CV with > 10% threshold breach.

7. Metric Short Description

CA with 3 consecutive SV or CV threshold trips

8. Metric

X = Number of CA WBSs where CAM work remaining/project work remaining > 7% and CAM BCWSi/project BCWSi > 10% in the EVMS cost tool, with 3 consecutive period SV or CV threshold trips.

Y = Number of CA WBSs where CAM work remaining/project work remaining > 7% and CAM BCWSi/project BCWSi >10% in the EVMS cost tool.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		1.8
12. Needed Artifacts and Da	ata Elements	
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF07_{IPMR header} CPP-1_FF03_{cost} CPP-2_FF03_{cost} CPP-1_FF07_{IPMR header} CPP-2_FF07_{IPMR header}	Ff data elements FF03_(cost)_[B]_CPP_status_date FF03_(cost)_[C]_period_date FF03_(cost)_[C]_WBS_type FF03_(cost)_[K]_inc_BCWS_dollars FF03_(cost)_[K]_BCWSc FF03_(cost)_[K]_BCWSc FF03_(cost)_[L]_inc_BCWP_dollars FF03_(cost)_[L]_BCWPc FF03_(cost)_[M]_inc_ACWPc_ FF07_(iPMR_header]_B]_CPP_status_date FF07_(iPMR_header]_IAL_threshold_cum_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollar FF07_(iPMR_header]_IAL_threshold_inc_dollars CPP-1_FF03_(cost)_IK_inc_BCWS_dollars CPP-2_FF03_(cost)_IK_inc_BCWS_dollars CPP-2_FF03_(cost)_IK_BCWSc CPP-2_FF03_(cost)_IL_inc_BCWP_dollars CPP-2_FF03_(cost)_IL_inc_BCWP_dollars CPP-2_FF03_(cost)_IL_inc_BCWP_dollars CPP-1_FF03_(cost)_IL_BCWPc CPP-1_FF03_(cost)_IM_inc_ACWP_dollars CPP-1_FF03_(cost)_IM_inc_ACWP_dollars CPP-1_FF03_(cost)_IM_inc_ACWP_dollars CPP-1_FF07_(iPMR_header)_IB_CPP_status_date CPP-1_FF07_(iPMR_header)_IAL_threshold_cum_dollar CPP-1_FF07_{IPMR_header}_IAL_threshold_cum_dollar CPP-1_FF07_{IPMR_header}_IAL_threshold_cum_dollar CPP-1_FF07_{IPMR_header}_IAL_threshold_cum_dollar CPP-1_FF07_{IPMR_header}_IAL_threshold_cum_dollar CPP-1_FF07_{IPMR_header}_IAL_threshold_cum_dollar CPP-1_FF07_{IPMR_header}_IAL_threshold_cum_dollar CPP-1_FF07_{IPMR_header}_IAL_threshold_inc_dollar CPP-1_FF07_{IPMR_header}_IAL_threshold_inc_dollar CPP-1_FF07_{IPMR_header}_IAL_threshold_inc_dollar CPP-1_FF07_{IPMR_header}_IAL_threshold_inc_dollar CPP-1_FF07_{IPMR_header}_IAN_threshold_inc_dollar CPP-1_FF07_{IPMR_header}_IAN_thresh

13. Assumptions

14. Instructions

Determine Y items based on the following.	Y
Count FF03 {cost} [D] WBS items and, if identified, with the following characteristics.	qualifier
• FF03 {cost} [G] WBS type = CA	WBS type
 (FF03 {cost} [K] DB - FF03 {cost} [L] BCWPc) for CAM / (FF03 {cost} [K] DB - FF03 {cost} [L] BCWPc) for project > 7% 	other 1
	other 2
 FF03_{cost}_[K]_inc_BCWS_dollars for CAM / FF03_{cost}_[K]_inc_BCWS_dollars for project > 10% 	
Determine X items, a subset of Y, based on the following.	x
ldentify FF03_{cost}_[B]_CPP_status_date,CPP-1_FF03_{cost}_[B]_CPP_status_date,CPP-	qualifier
2_FF03_{cost}_[B]_CPP_status_date,FF07_{IPMR_header}_[B]_CPP_status_date,CPP-	
1_FF07_{IPMR_header}_[B]_CPP_status_date,CPP-2_FF07_{IPMR_header}_[B]_CPP_status_date and, if identified, with the	
following characteristics.	
 FF03_{cost}_[B]_CPP_status_date = FF03_{cost}_[C]_period_date for incremental operation 	other 1
Count flagged items based on the following operation(s).	qualifier
 (abs(FF03 {cost} [L] inc BCWP dollars - FF03 {cost} [K] inc BCWS dollars) > 	operation
FF07_{IPMR_header}_[AM]_threshold_inc_dollar	
AND	
abs(CPP-1_FF03_{cost}_[L]_inc_BCWP_dollars - CPP-1_FF03_{cost}_[K]_inc_BCWS_dollars) > CPP-	
1_FF07_{IPMR_header}_[AM]_threshold_inc_dollar	
abs(CPP-2_FF03_{cost}_[L]_inc_BCWP_dollars - CPP-2_FF03_{cost}_[K]_inc_BCWS_dollars) > CPP-	
2_FF07_{IPMR_header}_[AM]_threshold_inc_dollar) OR	
(abs(FF03 {cost} [L] BCWPc - FF03 {cost} [K] BCWSc) > FF07 {IPMR header} [AK] threshold cum dollar	
(abs(FF05_{c0st}_lt]_bCWFC-FF05_{c0st}_lK]_bCW5C) > FF07_{iFMK_feader}_lKK]_titleshold_cutt_dollar AND	
abs(CPP-1 FF03 {cost} [L] BCWPc - CPP-1 FF03 {cost} [K] BCWSc) > CPP-	
1 FF07 {IPMR header} [AK] threshold cum dollar	
abs(CPP-2_FF03_{cost}_[L]_BCWPc - CPP-2_FF03_{cost}_[K]_BCWSc) > CPP-	
2_FF07_{IPMR_header}_[AK]_threshold_cum_dollar)	
OR	
(abs(FF03_{cost}_[L]_inc_BCWP_dollars / FF03_{cost}_[K]_inc_BCWS_dollars) >	
FF07_{IPMR_header}_[AN]_threshold_inc_pct	
AND abs(CPP-1_FF03_{cost}_[L]_inc_BCWP_dollars / CPP-1_FF03_{cost}_[K]_inc_BCWS_dollars) > CPP-	
1 FF07 {IPMR header} [AN] threshold inc pct	
abs(CPP-2_FF03_{cost}_[L]_inc_BCWP_dollars / CPP-2_FF03_{cost}_[K]_inc_BCWS_dollars) > CPP-	
2_FF07_{IPMR_header}_[AN]_threshold_inc_pct)	
OR	
(abs(FF03_{cost}_[L]_BCWPc / FF03_{cost}_[K]_BCWSc) > FF07_{IPMR_header}_[AL]_threshold_cum_pct	
abs(CPP-1_FF03_{cost}_[L]_BCWPc / CPP-1_FF03_{cost}_[K]_BCWSc) > CPP-	
1_FF07_{IPMR_header}_[AL]_threshold_cum_pct AND	
abs(CPP-2 FF03 {cost} [L] BCWPc / CPP-2 FF03 {cost} [K] BCWSc) > CPP-	
2 FF07 {IPMR header} [AL] threshold cum pct)	
(abs(FF03_{cost}_[L]_inc_BCWP_dollars - FF03_{cost}_[M]_inc_ACWP_dollars) >	
FF07_{IPMR_header}_[AM]_threshold_inc_dollar	
AND	
abs(CPP-1_FF03_{cost}_[L]_inc_BCWP_dollars - CPP-1_FF03_{cost}_[M]_inc_ACWP_dollars) > CPP-	
1_FF07_{IPMR_header}_[AM]_threshold_inc_dollar	
AND $aba(CPR 2, EE02, (apart), [1], inc. RCWR, dollars, CRR 2, EE02, (apart), [M], inc. ACWR, dollars) > CRR$	
abs(CPP-2_FF03_{cost}_[L]_inc_BCWP_dollars - CPP-2_FF03_{cost}_[M]_inc_ACWP_dollars) > CPP- 2_FF07_{IPMR_header}_[AM]_threshold_inc_dollar)	
OR	
(abs(FF03_{cost}_[L]_BCWPc - FF03_{cost}_[M]_ACWPc) > FF07_{IPMR_header}_[AK]_threshold_cum_dollar	
AND	
abs(CPP-1_FF03_{cost}_[L]_BCWPc - CPP-1_FF03_{cost}_[M]_ACWPc) > CPP-	
1_FF07_{IPMR_header}_[AK]_threshold_cum_dollar	
AND	
abs(CPP-2_FF03_{cost}_[L]_BCWPc - CPP-2_FF03_{cost}_[M]_ACWPc) > CPP-	
2_FF07_{IPMR_header}_[AK]_threshold_cum_dollar)	
OR (aba/EE02 (apot) [1] ina RCWR dallara (EE02 (apot) [M] ina ACWR dallara) >	
(abs(FF03_{cost}_[L]_inc_BCWP_dollars / FF03_{cost}_[M]_inc_ACWP_dollars) > FF07 {IPMR header} [AN] threshold inc pct	
abs(CPP-1_FF03_{cost}_[L]_inc_BCWP_dollars / CPP-1_FF03_{cost}_[M]_inc_ACWP_dollars) > CPP-	
1_FF07_{IPMR_header}_[AN]_threshold_inc_pct	
abs(CPP-2_FF03_{cost}_[L]_inc_BCWP_dollars / CPP-2_FF03_{cost}_[M]_inc_ACWP_dollars) > CPP-	
2_FF07_{IPMR_header}_[AN]_threshold_inc_pct)	
(abs(FF03_{cost}_[L]_BCWPc / FF03_{cost}_[M]_ACWPc) > FF07_{IPMR_header}_[AL]_threshold_cum_pct AND	
AND abs(CPP-1_FF03 {cost} [L]_BCWPc / CPP-1_FF03 {cost} [M]_ACWPc) > CPP-	
1 FF07 {IPMR header} [AL] threshold cum pct	

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 9, Intent: "The establishment of multiple control accounts should be determined by the control account's scope of the management tasks and consideration for planning and control of budgets, schedules, work assignments, progress assessment, problem identification, and corrective actions."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE E	EVMS Me	etric Specific	ation
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency
В	B.01.01	(06.01.01) (22)	automated	monthly
5. Attribute				
Authorized, Time-Phased Wo	rk Scope			
6. Metric Intent				
	longest path of the so			ling details for any significant subcontracted schedule system and HDV-CI, ensures that all
7. Metric Short Descript	ion			
HDV-CI, index <> BL IMS				а
8. Metric				
X = Number of items in the I	HDV-CI list, not in th	ne BL IMS.		
Y = Number of items in the I	HDV-CI list.			
9. Max. Threshold	10. Max. To	erance	11. Weight	
0			2.2	
12. Needed Artifacts and	d Data Elements			
<u>Y artifact(s)</u>	X artifact(s)		FF data elements	
FF23_{HDV-CI}	FF04_{schedu	le}	FF04_{schedule}_[C]_ FF04_{schedule}_[AD] FF23_{HDV-CI}_[E]_F	_HDV_description
13. Assumptions				
14. Instructions				
Determine Y items based on t	the following.			Ŷ
Count FF23_{HDV-CI}_[E]_H	DV_description items	and, if identified,	with the following charact	teristics. qualifier
Determine X items, a subset o	of Y, based on the fol	lowing.		x
Identify FF04_{schedule}_[AD		ind, if identified, w	ith the following character	
 FF04_{schedule}_[C]_sche 				sch. type
Count flagged items based on	• •	ion(s).		qualifier operation
 FF04_{schedule}_[AD]_HD 				operation
Determine if X or X/Y exceeds	s the threshold.			

15. Reference(s)

Pages 11-12, Typical Attributes: "The schedule reflects all the time-phased discrete work to be accomplished that is traceable to the WBS and the Statement of Work. For certain material activities, including production related activities, not all discrete activities are planned in the integrated master schedule as they are managed through an M/ERP or other material management system."

Page 12, Typical Attributes: "Critical target dates, project milestones, contractual events, accomplishment criteria, and project decision points are identified and are being used to plan, status, and monitor progress of the work."

16. Rev	vision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

B B,01.02 (06.01.02) (23) automated monthiy 5. Attribute Authorized, Time-Phased Work Scope Image: Scope Sco	(23) automated monthly (23) monthly (24) monthly (25) mo	1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency
Authorized, Time-Phased Work Scope 6. Metric Intent This metric confirms that all incomplete discrete work and PPs to be accomplished is traceable to the cost system and schedule systemetric ensures that all work identified in the cost system as being incomplete are found in the schedule system and the schedule reflective work to be accomplished. 7. Metric Short Description discrete in EVMS cost tool not in FC IMS 7. Metric Short Description discrete in EVMS cost tool not in FC IMS 8. Metric 7. Metric Short Description 1. Metric Short Description 7. M	eing incomplete are found in the schedule system and the schedule reflects all a best tool that are discrete or PP, not in the FC IMS. best tool that are discrete or PP. 11. Weight 2.2 FF data elements FF03_(cost)_[D]_WBS FF03_(cost)_[J]_EV_method FF03_(cost)_[L]_BCWPc FF03_(cost)_[L]_BCWPc FF03_(cost)_[L]_BCWPc FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[G]_WBS following characteristics. Y quitter WB type following characteristics.	В	B.01.02 (06.01.02) (23)	automated	monthly
S. Metric Intent This metric confirms that all incomplete discrete work and PPs to be accomplished is traceable to the cost system and schedule systemetric ensures that all work identified in the cost system as being incomplete are found in the schedule system and the schedule reflehe work to be accomplished. 7. Metric Short Description ************************************	eing incomplete are found in the schedule system and the schedule reflects all a best tool that are discrete or PP, not in the FC IMS. best tool that are discrete or PP. 11. Weight 2.2 FF data elements FF03_(cost)_[D]_WBS FF03_(cost)_[G]_WBS_type FF03_(cost)_[J]_EV_method FF03_(cost)_[L]_BCWPc FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[G]_WBS following characteristics. Y qualiter wBS type following characteristics.	5. Attribute			
his metric confirms that all incomplete discrete work and PPs to be accomplished is traceable to the cost system and schedule system heric ensures that all work identified in the cost system as being incomplete are found in the schedule system and the schedule reflere work to be accomplished. A Metric A Metric A Metric A Mutric A	eing incomplete are found in the schedule system and the schedule reflects all a best tool that are discrete or PP, not in the FC IMS. best tool that are discrete or PP. 11. Weight 2.2 FF data elements FF03_(cost)_[D]_WBS FF03_(cost)_[G]_WBS_type FF03_(cost)_[J]_EV_method FF03_(cost)_[L]_BCWPc FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[G]_WBS following characteristics. Y qualiter wBS type following characteristics.	uthorized, Time-Phased Work	Scope		
retric ensures that all work identified in the cost system as being incomplete are found in the schedule system and the schedule reflere work to be accomplished.	eing incomplete are found in the schedule system and the schedule reflects all a best tool that are discrete or PP, not in the FC IMS. best tool that are discrete or PP. 11. Weight 2.2 FF data elements FF03_(cost)_[D]_WBS FF03_(cost)_[G]_WBS_type FF03_(cost)_[J]_EV_method FF03_(cost)_[L]_BCWPc FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[G]_WBS following characteristics. Y qualiter wBS type following characteristics.	. Metric Intent			
tiscrete in EVMS cost tool not in FC IMS B. Metric K = Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP, not in the FC IMS. Y = Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP. B. Max. Threshold 10. Max. Tolerance 11. Weight 0 2.2 12. Needed Artifacts and Data Elements Y = Aufidact(s) FF03_(cost)_[D]_WBS FF03_(cost)_[D]_WBS FF03_(cost)_[D]_WBS FF03_(cost)_[D]_WBS FF03_(cost)_[D]_WBS FF03_(cost)_[L]_BCWPc FF03_(cost)_[L]_BCWPc FF03_(cost)_[L]_BCWPc < FF03_(cost)_[L]_BCWPc FF03_(cost)_[D]_WBS items and, if identified, with the following characteristics. FF03_(cost)_[D]_WBS items and, if identified, with the following characteristics. FF04_(schedule)_[C]_WBS and, if identified, with the following. Maximum X items a subset of Y, based on the following. Maximum X items a subset of Y, based on the following. Maximum X items a subset of Y, based on the following. Maximum X i	best tool that are discrete or PP. 11. Weight 2.2 FF data elements FF03 {cost}_[D]_WBS FF03 {cost}_G_WBS_type FF03 {cost}_G_WBS_type FF03 {cost}_J]_EV_method FF03 {cost}_L]_BCWPc FF04 {schedule}_[C]_schedule_type FF04 {schedule}_[G]_WBS FF03 {cost}_L]_BCWPc FF04 {schedule}_G_WBS FF03 {cost}_L]_BCWPc FF04 {schedule}_IC]_schedule_type FF04 {schedule}_	metric ensures that all work ide	•	•	, ,
As Metric (* Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP, not in the FC IMS. (* Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP. (* Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP. (* Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP. (* Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP. (* Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP. (* Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP. (* Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP. (* Artifact(s) (* Artifact(s)	bet tool that are discrete or PP. 11. Weight 2.2 FF data elements FF03 {cost} [D] WBS FF03 {cost} [G] WBS type FF03 {cost} [G] WBS type FF03 {cost} [G] WBS FF03 {cost} [J] EV method FF03 {cost} [L] BCWPc FF04 {schedule} [C] schedule type FF04 {schedule} [G] WBS v following characteristics. v following characteristics. x following characteristics. audifer wB type teoremote following characteristics. audifer wB type teoremote following characteristics. audifer wB type teoremote guidifier wB type incomplete wB type guidifier wB type following characteristics. audifer guidifier wB type guidifier wB type following characteristics. audifer guidifier wB type guidifier	. Metric Short Descriptio	n		
A Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP, not in the FC IMS. Y = Number of incomplete WBS identifiers in the EVMS cost tool that are discrete or PP. Amax. Threshold 10. Max. Tolerance 11. Weight 0 2.2 12. Needed Artifacts and Data Elements Yeatifact(s) X artifact(s) FF data elements FF03_(cost)_[D]_WBS FF03_(cost)_[C]_WBS_type FF03_(cost)_[C]_WBS_type FF03_(cost)_[L]_BCWPc FF04_(schedule)_[C]_schedule_type FF03_(cost)_[D]_WBS Itermine Y items based on the following. Count FF03_(cost)_[D]_WBS items and, if identified, with the following characteristics. FF03_(cost)_[J]_EV_method <> A or J or NA Petermine X items, a subset of Y, based on the following. dentify FF04_(schedule)_[C]_schedule_type = FC FF04_(schedule)_[C]_schedule]_[D]_WBS and, if identified, with the following characteristics. FF04_(schedule)_[C]_schedule]_[D]_WBS and, if identified, with the following characteristics. FF04_(schedule)_[C]_schedule]_[C]_wBS and, if identified, with the following characteristics. FF04_(schedule)_[C]_schedule]_[C]_wBS and, if identified, with the following characteristics. FF04_(schedule)_[C]_wBS and, if identified, with the following characteristics. FF04_(schedule)_[C]_schedule]_[C]_wBS and, if identified, with the following characteristics. FF04_(schedule)_[C]_schedule]_G]_WBS and, if identified, with the following characteristics. FF04_{(schedule)_[C]_schedule]_G]_WBS and, if identified, with the following characteristics. FF04_{(schedule)_[C]_schedule]_G]_WBS and, if identified, with the following.	best tool that are discrete or PP. 11. Weight 2.2 FF data elements FF03 {cost}_[D]_WBS FF03 {cost}_G_WBS_type FF03 {cost}_G_WBS_type FF03 {cost}_J]_EV_method FF03 {cost}_L]_BCWPc FF04 {schedule}_[C]_schedule_type FF04 {schedule}_[G]_WBS FF03 {cost}_L]_BCWPc FF04 {schedule}_G_WBS FF03 {cost}_L]_BCWPc FF04 {schedule}_IC]_schedule_type FF04 {schedule}_	liscrete in EVMS cost tool not i	n FC IMS		а
Image: A stand s	best tool that are discrete or PP. 11. Weight 2.2 FF data elements FF03 {cost}_[D]_WBS FF03 {cost}_G_WBS_type FF03 {cost}_G_WBS_type FF03 {cost}_J]_EV_method FF03 {cost}_L]_BCWPc FF04 {schedule}_[C]_schedule_type FF04 {schedule}_[G]_WBS FF03 {cost}_L]_BCWPc FF04 {schedule}_G_WBS FF03 {cost}_L]_BCWPc FF04 {schedule}_IC]_schedule_type FF04 {schedule}_	3. Metric			
Amax. Threshold 10. Max. Tolerance 11. Weight 0 2.2 I2. Needed Artifacts and Data Elements Ff data elements (artifact(s) X artifact(s) FF03_(cost) $FF04_{(schedule)}$ FF03_(cost)_[D]_WBS FF03_(cost)_[J]_EV_method FF03_(cost)_[L]_BCWPc FF04_{(schedule)_[C]_schedule]_[G]_WBS I3. Assumptions F04_{(schedule)_[G]_WBS_(percenter)_{(schedule)_[G]_WBS} Vetermine Y items based on the following. Y Count FF03_(cost)_[D]_WBS items and, if identified, with the following characteristics. Y FF03_{(cost)_[J]_EV_method <> A or J or NA Y PF03_{(cost)_[J]_EV_method <> A or J or NA X Petermine X items, a subset of Y, based on the following. X Actify FF04_{(schedule)_[C]_schedule]_[G]_WBS and, if identified, with the following characteristics. Y FF03_{(cost)_[J]_EV_method <> A or J or NA X Petermine X items, a subset of Y, based on the following. X Centify FF04_{(schedule)_[C]_schedule_Yep = FC X	11. Weight 2.2 FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[J]_EV_method FF03_{cost}_[L]_BCWPc FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[G]_WBS following characteristics. Y qualifier w88 type incomplete EvT x qualifier ash. type qualifier ash. type qualifier ash. type	K = Number of incomplete WE	3S identifiers in the EVMS cost too	I that are discrete or PP,	not in the FC IMS.
0 2.2 12. Needed Artifacts and Data Elements FE data elements ('artifact(s)) X artifact(s) FE data elements ('artifact(s)) X artifact(s) FF data elements ('artifact(s)) FF03 {cost} [D] WBS FF03 {cost} [G] WBS ('artifact(s)) FF04 {schedule} FF03 {cost} [G] WBS FF03 {cost} [G] WBS ('artifactions) FF03 {cost} [L] BCWPc FF04 {schedule} [O] schedule {[G] WBS 13. Assumptions Image: Cost (Cost (Cost) [L] BCWPc FF03 {cost} [G] WBS 14. Instructions Count FF03 {cost} [D] WBS items and, if identified, with the following characteristics. Y FF03 {cost} [G] WBS items and, if identified, with the following characteristics. Y FF03 {cost} [G] WBS type = WP or PP or CA or SLPP Y FF03 {cost} [J] EV_method <> A or J or NA F Determine X items, a subset of Y, based on the following. X dentify FF04 {schedule} [G] WBS and, if identified, with the following characteristics. Y FF04 {schedule} [C] cschedule type = FC Y	2.2 FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[J]_EV_method FF03_{cost}_[L]_BCWPc FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[G]_WBS following characteristics. following characteristics. following characteristics. x qualifier ws type the complete EVT x qualifier sh. type qualifier sh. type sh. type	<pre></pre>	3S identifiers in the EVMS cost too	I that are discrete or PP.	
12. Needed Artifacts and Data Elements Y artifact(s) X artifact(s) FF data elements FF03_{cost} FF04_{schedule} FF03_{cost}_[D]_WBS FF03_{cost} J]_EV_method FF03_{cost} J]_EV_method FF03_{cost} J]_EV_method FF03_{cost} J]_EV_method FF03_{cost} J]_EV_method FF03_{cost} J]_EV_method FF03_{cost} J_I_BCWPc FF04_{schedule}_[G]_WBS FF04_{schedule}_[G]_WBS 13. Assumptions Its instructions Determine Y items based on the following. Y Count FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. Y PF03_{cost}_[I]_BCWPc < FF03_{cost}_[K]_DB	FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[J]_EV_method FF03_{cost}_[L]_BCWPc FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[G]_WBS following characteristics. following characteristics. following characteristics.	9. Max. Threshold	10. Max. Tolerance	11. Weight	
X artifact(s) X artifact(s) FF data elements FF03_{cost} FF04_{schedule} FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[I]_BVPc FF03_{cost}_[L]_BCWPc FF04_{schedule}_[G]_wBS FF04_{schedule}_[G]_WBS FF04_{schedule}_[G]_WBS IS. Assumptions FF04_{schedule}_[G]_WBS IA. Instructions V Determine Y items based on the following. Y Count FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. Y FF03_{cost}_[G]_WBS_type = WP or PP or CA or SLPP W FF03_{cost}_[J]_EV_method <> A or J or NA FF03_{cost}_[J]_EV_method <> A or J or NA Determine X items, a subset of Y, based on the following. X Chertify FF04_{schedule}_[G]_WBS and, if identified, with the following characteristics. Y FF04_{schedule}_[G]_WBS and, if identified, with the following characteristics. Y Petermine X items, a subset of Y, based on the following. X Chertify FF04_{schedule}_[G]_WBS and, if identified, with the following characteristics. Y FF04_{schedule}_[C]_schedule_type = FC Y	FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[J]_EV_method FF03_{cost}_[L]_BCWPc FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[G]_WBS following characteristics. following characteristics. following characteristics.	0		2.2	
FF03_{cost} FF04_{schedule} FF03_{cost}_D WBS FF03_{cost}_G WBS_type FF03_{cost}_G WBS_type FF03_{cost}_L BCWPc FF04_{schedule}_C schedule_type FF04_{schedule}_G WBS FF04_{schedule}_G WBS I3. Assumptions III EV_method I4. Instructions FF03_{cost}_L BCWPc Determine Y items based on the following. Y Count FF03_{cost}_D WBS items and, if identified, with the following characteristics. III FF03_{cost}_L BCWPc < FF03_{cost}_K DB	FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[J]_EV_method FF03_{cost}_[L]_BCWPc FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[G]_WBS following characteristics. following characteristics. following characteristics.	2. Needed Artifacts and	Data Elements		
14. Instructions Determine Y items based on the following. Count FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. • FF03_{cost}_[G]_WBS_type = WP or PP or CA or SLPP • FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB	following characteristics. qualifier WBS type incomplete EVT x following characteristics. qualifier sch. type qualifier qualifier			FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_ FF03_{cost}_[J]_EV_me FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWP FF04_{schedule}_[C]_se	ethod /c chedule_type
Determine Y items based on the following. * Count FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. * • FF03_{cost}_[G]_WBS_type = WP or PP or CA or SLPP * • FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB	following characteristics. qualifier WBS type incomplete EVT x following characteristics. qualifier sch. type qualifier	13. Assumptions			
Determine Y items based on the following. Count FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. FF03_{cost}_[G]_WBS_type = WP or PP or CA or SLPP FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB	following characteristics. qualifier WBS type incomplete EVT x following characteristics. qualifier sch. type qualifier qualifier	14. Instructions			
Identify FF04_{schedule}_[G]_WBS and, if identified, with the following characteristics. * • FF04_{schedule}_[C]_schedule_type = FC **	following characteristics. qualifier sch. type qualifier	Count FF03_{cost}_[D]_WBS it • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[L]_BCWPc < F • FF03_{cost}_[J]_EV_method	ems and, if identified, with the followi = WP or PP or CA or SLPP F03_{cost}_[K]_DB <> A or J or NA	ng characteristics.	qualifier WBS type incomplete EVT
count hagged terms based on the following operation(s).		dentify FF04_{schedule}_[G]_V FF04_{schedule}_[C]_schedu Count flagged items based on t	VBS and, if identified, with the followi ule_type = FC he following operation(s).	ng characteristics.	qualifier sch: type qualifier

15. Reference(s)

Pages 11-12, Typical Attribute(s): "The schedule reflects all the time-phased discrete work to be accomplished that is traceable to the WBS and the Statement of Work. For certain material activities, including production related activities, not all discrete activities are planned in the integrated master schedule as they are managed through an M/ERP or other material management system."

Page 12, Typical Attributes: "Critical target dates, project milestones, contractual events, accomplishment criteria, and project decision points are identified and are being used to plan, status, and monitor progress of the work."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE EVMS N	letric Specification	
1. Process Category	2. Metric ID (new, old)	3. Method 4. Frequency	
В	B.02.01 (06.02.01) (24	4) automated monthly	
5. Attribute			
Schedule Provides Current St	atus		
6. Metric Intent			
		status including FC start and finish dates consistent with the m dule system has no activities showing a % complete value = 100	
7. Metric Short Descripti	on		
100% complete without actual	finish		a F
8. Metric			
X = Number of activities in t	he FC IMS with % complete = 100	0%, with no actual finish date.	
Y = Number of activities in t	he FC IMS with % complete = 100	0%.	
9. Max. Threshold	10. Max. Tolerance	11. Weight	
0		2.2	
12. Needed Artifacts and	d Data Elements		
Y artifact(s)	<u>X artifact(s)</u>	FF data elements	
FF04_{schedule}	FF04_{schedule}	FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[V]_pct_complete	
13. Assumptions			
14. Instructions			
Determine Y items based on t	he following.		Y
	ask_ID items and, if identified, with	the following characteristics.	qualifier
 FF04_{schedule}_[C]_sche 	dule_type = FC		sch. type
 FF03_{cost}_[L]_BCWPc > 	= FF03_{cost}_[K]_DB (completed)		other 1
<u>Determine X items, a subset c</u>	of Y, based on the following.		x
	task_ID and, if identified, with the f	following characteristics.	qualifier
Count flagged items based on	01		qualifier
OR	sk_type = M THEN FF04_{schedule sk_type <> M THEN FF04_{schedu	e}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = nul ule} [U]_AF_date = null	oportuon
Determine if X or X/Y exceeds			

15. Reference(s)

Page 11, Intent: "There is a clear definition of what constitutes commencement and completion of each work package..."

-			•		
16. Rev	rision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

		DOE EV	MS Me	tric S	pecificat	ion		
1. Proc	ess Category	2. Metric ID (ne	w, old)	3. Meth	od	4. Frequen	су	
В		B.02.02 (06	.02.02) (25)	automate	ed	monthly		
5. Attri	bute							
Schedule	e Provides Current Sta	tus						
6. Metri	ic Intent							
status (d		t project schedule provi This metric ensures that						
7. Metri	ic Short Descriptio	on						
> 0% cor	mplete without actual s	tart						a F
B. Metri	ic							
X = Num	ber of incomplete ac	tivities in the FC IMS v	vith % compl	ete > 0%, w	ith no actual star	t date.		
Y = Num	ber of incomplete ac	tivities in the FC IMS v	vith % compl	ete > 0%.				
9. Max.	Threshold	10. Max. Tolera	nce	11. Wei	ght			
	0			2.2				
12. Nee	eded Artifacts and	Data Elements						
<u>Y artifact</u> FF04_{so		<u>X artifact(s)</u> FF04_{schedule}		FF04_{so FF04_{so FF04_{so FF04_{so	elements chedule}_[C]_sche chedule}_[D]_task_ chedule}_[E]_task_ chedule}_[T]_AS_c chedule}_[U]_AF_c chedule}_[V]_pct_c	_ID _type late date		
13. Ass	umptions							
14. Inst	tructions							
Determin	e Y items based on th	e following.						Y
		sk_ID items and, if iden	tified, with the	following cl	naracteristics.			qualifier
	{schedule}_[C]_sched		(a sha shala) II				4	sch. type incomplete
OR	4_{schedule}_[E]_task	_type = M THEN FF04_	_{schedule}_[l	J_AF_date		[schedule]_[1]_AS_da	ite = null	
		<_type <> M THEN FF0	4_{schedule}_	_[U]_AF_dat	e = null			PC
	<pre>{schedule}_[V]_pct_cc</pre>	•						x
		Y, based on the following ask_ID and, if identified		wing charac	teristics			qualifier
-		the following operation(s						qualifier
IF FF0	4_{schedule}_[E]_task	_type = M THEN FF04_	_{schedule}_[l	J]_AF_date	= null OR FF04_{s	chedule}_[T]_AS_date	e = null	operation
	4 {schedule} [F] task	<_type <> M THEN FF0	4 {schedule}	ITI AS dat	e = null			
	ie if X or X/Y exceeds		()_					
	erence(s)							
Page 11,		ar definition of what con	istitutes comm	nencement a	and completion of e	each work package ar	nd planning) packag
16. Rev	ision Block							
	description of change	and sections affected	date p	repared	prepared by	date approved	approv	ed by
V04.00	Updated for release. Se		-	-01-21	PM-30	2022-01-21	Melvin	-
V03.00	Updated for release. Se ID'ed from 06.02.03 to 0	ee itemized revision list. Re 06.02.02.	- 2020	-02-10	PM-30	2020-02-10	Melvin	Frank

	ID'ed from 06.02.03 to 06.02.02.				
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric II) (new, old)	3. Method	4. Frequency				
B	B.02.03	(06.02.03) (26)	automated	monthly				
_	B.02.03	(00.02.00) (20)	dutomatod	monuny				
5. Attribute								
Schedule Provides Current Status								
6. Metric Intent								
This metric confirms the current project schedule provides actual status including FC start and finish dates consistent with the month end status (data) date for all work. This metric ensures that the schedule system prevents activities from starting or completing before one or more of its predecessors are complete.								
7. Metric Short Description								
FC IMS out-of-sequence relations	hips			a A				
8. Metric								
X = Number of incomplete activity relationships in the FC IMS with early start from last quarter, identified as statused out-of- sequence.								
Y = Number of incomplete activity relationships in the FC IMS with early start from last quarter.								
9. Max. Threshold	10. Max. To	olerance	11. Weight					

0		2.2	
12. Needed Artifacts and D	ata Elements		
<u>Y artifact(s)</u> FF04_{schedule} CPP-3_FF04_{schedule}	<u>X artifact(s)</u> FF05_{schedule_logic} FF04_{schedule}	FF data elements FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[L]_ES_date FF04_{schedule}_[T]_AS_date FF04_{schedule}_[B]_CPP_status_date FF04_{schedule}_[U]_AF_date FF05_{schedule_logic}_[C]_schedule_type FF05_{schedule_logic}_[D]_task_ID FF05_{schedule_logic}_[E]_predecessor_ID FF05_{schedule_logic}_[F]_rel_type	
13. Assumptions			
14. Instructions			
 FF04_{schedule}_[C]_schedule FF05_{schedule_logic}_[C]_sc IF FF04_{schedule}_[E]_task_t OR IF FF04_{schedule}_[E]_task_t FF04_{schedule}_[B]_CPP_sta OR FF04_{schedule}_[B]_CPP_sta]_task_ID,FF04_{schedule}_[D]_ e_type = FC, hedule_type = FC type = M THEN FF04_{schedule} type <> M THEN FF04_{schedule atus_date for CPP-3 < FF04_{sch atus_date for CPP-3 < FF04_{sch , based on the following.	<pre>nedule}_[L]_ES_date <= FF04_{schedule}_[B]_CPP_status_date nedule}_[T]_AS_date <= FF04_{schedule}_[B]_CPP_status_dat</pre>	Y qualifier sch. type incomplete other 1 X qualifier
FF05_{schedule_logic}_[E]_pre	hedule_type = FC e following operation(s). rel_type = FS, (FF04_{schedule} edecessor_ID = null) rel_type = SS, (FF04_{schedule} edecessor_ID = null)	<pre>[T]_AS_date <> null AND FF04_{schedule}_[U]_AF_date of[T]_AS_date <> null AND FF04_{schedule}_[T]_AS_date of</pre>	qualifier qualifier operation

FF05_{schedule_logic}_[E]_predecessor_ID <> null)

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "There is a clear definition of what constitutes commencement and completion of each work package and planning package (or lower-level task/activity)."

Page 12, Typical Attribute(s): "The schedule provides current status and forecasts of completion dates for all discrete authorized work."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.02.02 to 06.02.03.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Section 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE EVMS Me	etric Specifica	tion
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency
В	B.02.04 (06.02.04) (27)	automated	monthly
5. Attribute			
Schedule Provides Current St	atus		
6. Metric Intent			
This metric confirms the curre	This metric ensures that the schedule		ish dates consistent with the month end reporting an actual start date and actual
7. Metric Short Descripti	on		
FC IMS actual start or finish da	ate, prior <> current		a
8. Metric			
X = Number of activities in th	he FC IMS with actual start or finish	n dates in prior month, diffe	rent from current month.
Y = Number of activities in th	he FC IMS with actual start or finish	n dates in prior month.	
9. Max. Threshold	10. Max. Tolerance	11. Weight	
0		2.2	
12. Needed Artifacts and	l Data Elements		
Y artifact(s)	X artifact(s)	FF data elements	
CPP-1_FF04_{schedule}	FF04_{schedule} CPP-1_FF04_{schedule}	FF04_{schedule}_[C]_sch FF04_{schedule}_[D]_tas FF04_{schedule}_[T]_AS FF04_{schedule}_[U]_AF CPP-1_FF04_{schedule}_ CPP-1_FF04_{schedule}_ CPP-1_FF04_{schedule}_ CPP-1_FF04_{schedule}_ CPP-1_FF04_{schedule}_	k_ID _date _date _[C]_schedule_type _[D]_task_ID _[E]_task_type _[T]_AS_date
13. Assumptions			
14. Instructions			
Determine Y items based on the	he following.		Y
	e}_[D]_task_ID items and, if identified	, with the following characteris	stics. qualifier
 CPP-1_FF04_{schedule}_[0 			sch. type
CPP-1_FF04_{schedule}_[E			task type
 CPP-1_FF04_{schedule}_[T OR 	⁻]_AS_date <> null		other 1
CPP-1_FF04_{schedule}_[l	J]_AF_date <> null		
Determine X items, a subset o	f Y, based on the following.		x
Identify FF04_{schedule}_[D]_	task_ID and, if identified, with the foll	owing characteristics.	qualifier
 FF04_{schedule}_[C]_schedule 	dule_type = FC		sch. type
Count flagged items based on	3 . ()		qualifier
 CPP-1_FF04_{schedule}_[T OR]_AS_date <> FF04_{schedule}_[T]_/	AS_date	operation

CPP-1_FF04_{schedule}_[U]_AF_date <> FF04_{schedule}_[U]_AF_date

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "There is a clear definition of what constitutes commencement and completion of each work package and planning package (or lower-level task/activity)."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

I. Process Category	2. Metric II	D (new, old)	3. Method 4. Frequency		
}	B.02.05	(06.02.05) (28)	automated monthly		
. Attribute					
chedule Provides Current Sta	atus				
. Metric Intent					
			tus including FC start and finish dates consistent with the mor schedule system, ensures that activities and milestones listed		
. Metric Short Descripti	on				
L IMS not in FC IMS				a B	
. Metric					
= Number of incomplete ad	ctivities in the BL	IMS, not in the FC	IMS.		
<pre>' = Number of incomplete ad</pre>	ctivities in the BL	IMS.			
. Max. Threshold	10. Max. To	olerance	11. Weight		
0			2.2		
2. Needed Artifacts and	l Data Elements	5			
artifact(s)	X artifact(s)		FF data elements		
F04_{schedule}	FF04_{sched		FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date		
3. Assumptions					
4. Instructions					
etermine Y items based on th				Y	
		chedule}_[G]_WBS	items and, if identified, with the following characteristics.	qualifier sch. type	
 FF04_{schedule}_[C]_schedule_type = BL 					
IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C IF FF04_{schedule}_[E]_tas			U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null		
IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C IF FF04_{schedule}_[E]_tas OR IF FF04_{schedule}_[E]_tas IF FF04_{schedule}_[D]_tas	sk_type = M THEN sk_type <> M THEI sk_ID IS NOT IN FF	FF04_{schedule}_[N FF04_{schedule}_ 04_{schedule}_[C]_	[U]_AF_date = null		
IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C] IF FF04_{schedule}_[E]_tas OR IF FF04_{schedule}_[E]_tas FROM FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C] IF FF04_{schedule}_[E]_tas FF04_{schedule}_[B]_CPP_ OR	sk_type = M THEN sk_type <> M THEI sk_ID IS NOT IN FF C]_schedule_type = sk_type = M THEN _status_date < FF0	FF04_{schedule}_[N FF04_{schedule}_ 04_{schedule}_[C] BL FF04_{schedule}_[L]_E 4_{schedule}_[L]_E	_[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR S_date		
IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C] IF FF04_{schedule}_[E]_tas OR IF FF04_{schedule}_[E]_tas FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C] IF FF04_{schedule}_[E]_tas FF04_{schedule}_[B]_CPP_ OR IF FF04_{schedule}_[E]_tas	sk_type = M THEN sk_type <> M THEI sk_ID IS NOT IN FF C]_schedule_type = sk_type = M THEN _status_date < FF0 sk_type <> M THE	FF04_{schedule}_[N FF04_{schedule}_ 04_{schedule}_[C] BL FF04_{schedule}_[L]_E N FF04_{schedule}_	_[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR	×	
IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C IF FF04_{schedule}_[E]_tas OR IF FF04_{schedule}_[D]_tas FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C IF FF04_{schedule}_[E]_tas FF04_{schedule}_[B]_CPP_ OR IF FF04_{schedule}_[E]_tas etermine X items, a subset of	sk_type = M THEN sk_type <> M THEI sk_ID IS NOT IN FF C]_schedule_type = sk_type = M THEN _status_date < FF0 sk_type <> M THE f Y, based on the fo	FF04_{schedule}_[N FF04_{schedule}_ 04_{schedule}_[C] BL FF04_{schedule}_[L]_E N FF04_{schedule}_ N FF04_{schedule}	[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR S_date _[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date	X qualifier	
IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C IF FF04_{schedule}_[E]_tas OR IF FF04_{schedule}_[D]_tas FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C IF FF04_{schedule}_[E]_tas FF04_{schedule}_[B]_CPP_ OR IF FF04_{schedule}_[E]_tas etermine X items, a subset o entify FF04_{schedule}_[D]_	sk_type = M THEN sk_type <> M THEI sk_ID IS NOT IN FF C]_schedule_type = sk_type = M THEN _status_date < FFO sk_type <> M THE <u>f Y, based on the fr</u> task_ID by FF04_{	FF04_{schedule}_[N FF04_{schedule}_ 04_{schedule}_[C] BL FF04_{schedule}_[L]_E N FF04_{schedule}_ N FF04_{schedule}	_[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR S_date		
IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C] IF FF04_{schedule}_[E]_tas OR IF FF04_{schedule}_[E]_tas IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C] IF FF04_{schedule}_[E]_tas FF04_{schedule}_[B]_CPP_ OR IF FF04_{schedule}_[E]_tas etermine X items, a subset of	sk_type = M THEN sk_type <> M THEI sk_ID IS NOT IN FF C]_schedule_type = sk_type = M THEN _status_date < FFO sk_type <> M THE <u>if Y, based on the fr</u> task_ID by FF04_{ dule_type = FC	FF04_{schedule}_[N FF04_{schedule}_ O4_{schedule}_[C] BL FF04_{schedule}_ 4_{schedule}_[L]_E N FF04_{schedule} ollowing_ schedule}_[G]_WB	[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR S_date _[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date	qualifier	

15. Reference(s)

Page 11, Intent: "There is a clear definition of what constitutes commencement and completion of each work package and planning package (or lower-level task/activity)."

Page 12, Typical Attribute(s): "The baseline schedule is the basis for measuring performance."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification					
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
В	B.02.06	(06.02.06) (29)	automated	monthly	
5. Attribute					
Schedule Provides Current Sta	atus				
6. Metric Intent					
	within the freeze p	eriod. This metric, v		nd finish dates consistent with the mont e schedule system, ensures that activiti	
7. Metric Short Descripti	on				
FC IMS in freeze period not in	BL IMS				a F
8. Metric					
X = Number of incomplete ad	ctivities in the FC	IMS in the current	freeze period, not in th	ne BL IMS.	
Y = Number of incomplete ad	ctivities in the FC	IMS in the current	freeze period.		
9. Max. Threshold	10. Max. T	olerance	11. Weight		
5.0%			2.2		
12. Needed Artifacts and	Data Element	S			
<u>Y artifact(s)</u> FF04_{schedule} CPP+1_FF04_{schedule}	<u>X artifact(s)</u> FF04_{sched	tule}	FF data elements FF04_{schedule}_[C] FF04_{schedule}_[D] FF04_{schedule}_[E] FF04_{schedule}_[L] FF04_{schedule}_[M] FF04_{schedule}_[T] FF04_{schedule}_[U] CPP+1_FF04_{schedule}_[Schedule]	_task_ID _task_type _ES_date _EF_date _AS_date	
13. Assumptions					
14. Instructions					
Determine Y items based on th Count FF04_{schedule}_[D]_ta • FF04_{schedule}_[C]_sched • IF FF04_{schedule}_[E]_tas OR IF FF04_{schedule}_[E]_tas	ask_ID by FF04_{s dule_type = FC k_type = M THEN k_type <> M THEN	FF04_{schedule}_[\ N FF04_{schedule}_	J]_AF_date = null AND F [U]_AF_date = null	with the following characteristics. F04_{schedule}_[T]_AS_date = null	Y qualifier sch. type incomplete
 FF04_{schedule}_[L]_ES_da AND FF04_{schedule}_[M]_EF_d 	late >= CPP_statu	s_date	PP_status_date		
Determine X items, a subset o Identify FF04_{schedule}_[D]_ • FF04_{schedule}_[C]_sched Count flagged items based on • FF04_{schedule}_[D]_task_	task_ID by FF04_ dule_type = BL the following oper ID = null	{schedule}_[G]_WB	S and, if identified, with t	he following characteristics.	X qualifier sch. type qualifier operation
Determine if X or X/Y exceeds	the threshold.				

15. Reference(s)

Page 11, Management Value: "Scheduling authorized work facilitates effective planning, statusing, and forecasting, all of which provide the ability to evaluate and implement actions designed to complete the project effort within contractual parameters. The integration of the technical, schedule, and cost aspects of the project results in the: Time-phasing of authorized discrete work for use as the foundation to establish a valid performance measurement baseline."

Page 12, Typical Attribute(s): "The baseline schedule is the basis for measuring performance."

-										
16. Revision Block										
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by					
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank					
V03.00	Updated for release. See itemized revision list. Split to metrics to 06.02.06 and 06.02.07.	2020-02-10	PM-30	2020-02-10	Melvin Frank					
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank					
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank					
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank					

	DOE	EVMS Me	tric Specific	ation	
1. Process Category	2. Metric II) (new, old)	3. Method	4. Frequency	
В	B.02.07	(06.02.07) (30)	automated	monthly	
5. Attribute					
Schedule Provides Current St	atus				
6. Metric Intent					
		•	5	finish dates consistent with the mon that activities and milestones listed	
7. Metric Short Descript	ion				
FC IMS not in BL IMS					a F
8. Metric					
X = Number of incomplete a	ctivities in the FC	IMS, not in the BL	IMS.		
Y = Number of incomplete a	ctivities in the FC	IMS.			
9. Max. Threshold	10. Max. To	olerance	11. Weight		
1.0%			2.2		
12. Needed Artifacts and	d Data Elements	5			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{sched	ule}	<u>FF data elements</u> FF04_{schedule}_[C]_s FF04_{schedule}_[D]_tr FF04_{schedule}_[E]_tr FF04_{schedule}_[T]_A FF04_{schedule}_[U]_4	ask_ID ask_type \S_date	
13. Assumptions					
14. Instructions					
 FF04_{schedule}_[C]_sche 	ask_ID by FF04_{s dule_type = FC sk_type = M THEN I	F04_{schedule}_[J]_AF_date = null AND FF	th the following characteristics. 04_{schedule}_[T]_AS_date = null	Y qualifier sch. type incomplete
Determine X items, a subset of Identify FF04_{schedule}_[D] • FF04_{schedule}_[C]_sche Count flagged items based on • FF04 {schedule} [D] task	_task_ID by FF04_{ dule_type = BL the following opera	schedule}_[G]_WB	S and, if identified, with the	e following characteristics.	X qualifier sch. type qualifier operation
	-				

15. Reference(s)

Page 11, Management Value: "Scheduling authorized work facilitates effective planning, statusing, and forecasting, all of which provide the ability to evaluate and implement actions designed to complete the project effort within contractual parameters. The integration of the technical, schedule, and cost aspects of the project results in the: Time-phasing of authorized discrete work for use as the foundation to establish a valid performance measurement baseline."

Page 12, Typical Attribute(s): "The baseline schedule is the basis for measuring performance."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. New metric from 06.02.06.	2020-02-10	PM-30	2020-02-10	Melvin Frank

					aspinse a
1. Process Category	2. Metric II	D (new, old)	3. Method	4. Frequency	
В	B.03.01	(06.03.01) (31)	automated/manual verification	monthly	
5. Attribute					
Horizontal Integration					
6. Metric Intent					
are indicative of the actual wa	y the work is planne the schedule syster	ed and accomplishen, ensures that all i	of work (horizontal integration) and cl ed at the level of detail to support pro ncomplete activities and milestones a	ject longest path develop	
7. Metric Short Descript	ion				
BL IMS without relationships					a B
8. Metric					
X = Number of incomplete a	ctivities in the BL	IMS, without pred	ecessors or successors.		
Y = Number of incomplete a	ctivities in the BL	IMS.			
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0			2.1		
12. Needed Artifacts and	d Data Elements	5			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF05_{sched	ule_logic}	FF data elements FF04_{schedule}_[B]_CPP_status FF04_{schedule}_[C]_schedule_t FF04_{schedule}_[D]_task_ID FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[J]_AS_date FF04_{schedule}_[U]_AF_date FF05_{schedule_logic}_[C]_sched FF05_{schedule_logic}_[D]_task_ FF05_{schedule_logic}_[E]_prede	ype dule_type ID _Dsuccessors	
13. Assumptions					
14. Instructions					
OR IF FF04_{schedule}_[E]_ta IF FF04_{schedule}_[D]_ta FROM FF04_{schedule}_[U] IF FF04_{schedule}_[E]_ta FF04_{schedule}_[B]_CPP OR	ask_ID items and, i dule_type = BL sk_ID IS IN FF04_{ C]_schedule_type = lsk_type = M THEN sk_type <> M THEI sk_ID IS NOT IN FF C]_schedule_type = lsk_type = M THEN _status_date < FF0	schedule}_[C]_sche FC FF04_{schedule}_ N FF04_{schedule}_ F04_{schedule}_[C] BL FF04_{schedule}_[L]_E	edule_type = FC [U]_AF_date = null AND FF04_{sched _[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < FF04_{sched	dule}_[M]_EF_date OR	Y qualifier sch. type incomplete
					x
Determine X items, a subset of Identify FF05_{schedule_logic} • FF05_{schedule_logic}_[C] Count flagged items based on • FF05_{schedule_logic}_[E] OR FF05_{schedule_logic}_[D] Conduct the following manual	c}_[D]_task_ID and, _schedule_type = E the following opera _predecessor_ID = _task_IDsuccessor operation(s).	if identified, with th BL ation(s). 0/null s = 0/null	e following characteristics.		qualifier sch. type qualifier operation manual
 Flagged activity is not proje 	ect start and/or finis	n milestone.			operation
Determine if X or X/Y exceeds	s the threshold.				
15 Reference(s)					

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

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Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path..."

16. Rev	16. Revision Block									
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by					
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank					
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank					
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank					
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank					
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank					

1. Process Category	2. Metric ID) (new, old)	3. Method	4. Frequency	
В	B.03.02	(06.03.02) (32)	automated/manual verification	monthly	
5. Attribute					
Horizontal Integration					
6. Metric Intent					
are indicative of the actual way	the work is planne ne schedule systen	ed and accomplishen, ensures that all i	of work (horizontal integration) and cl ed at the level of detail to support pro incomplete activities and milestones a	ject longest path develop	
7. Metric Short Description	on				
FC IMS without relationships					a F
8. Metric					
X = Number of incomplete ac	tivities in the FC	IMS, without pred	ecessors or successors.		
Y = Number of incomplete ac	tivities in the FC	IMS.			
9. Max. Threshold	10. Max. To	olerance	11. Weight		
0.5%			2.1		
12. Needed Artifacts and	Data Elements	;			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF05_{sched	ule_logic}	FF data elements FF04_{schedule}_[C]_schedule_t FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF05_{schedule_logic}_[C]_sche FF05_{schedule_logic}_[D]_task_ FF05_{schedule_logic}_[D]_task_ FF05_{schedule_logic}_[E]_preduction	dule_type ID IDsuccessors	
13. Assumptions					
14. Instructions					
Determine Y items based on th Count FF04_{schedule}_[D]_ta • FF04_{schedule}_[C]_sched • IF FF04_{schedule}_[E]_tasl OR IF FF04_{schedule}_[E]_tasl	isk_ID items and, it lule_type = FC <_type = M THEN F	F04_{schedule}_[U]_AF_date = null AND FF04_{sched	lule}_[T]_AS_date = null	Y qualifier sch. type incomplete
Determine X items, a subset of					x
Identify FF05_{schedule_logic}			ne following characteristics.		qualifier
 FF05_{schedule_logic}_[C]_ 			-		sch. type
Count flagged items based on	0 1	()			qualifier
 FF05_{schedule_logic}_[E]_ OR FF05 {schedule logic} [D] 	_				operation
Conduct the following manual	-				manual

Conduct the following manual operation(s).

• Flagged activity is not project start and/or finish milestone.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path..."

Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

16. Revision Block

operation

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.03.04 to 06.03.02.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
В	B.03.03	(06.03.03) (33)	automated	monthly	
5. Attribute					
Horizontal Integration					
6. Metric Intent					
are indicative of the actual way th	ne work is plann	ed and accomplishe	d at the level of detail to	ration) and clearly identify interdepende o support project longest path developm os on incomplete activities in the BL IMS	ent. The
7. Metric Short Description	I				
BL IMS SF relationships					a B
8. Metric					
X = Number of relationships of	incomplete ac	tivities in the BL IM	IS, that are SF relation	nship.	
Y = Number of relationships of	incomplete ac	tivities in the BL IM	1S.		
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0			2.1		
12. Needed Artifacts and D	ata Element	S			
<u>Y artifact(s)</u> FF05_{schedule_logic} FF04_{schedule}	<u>X artifact(s)</u> FF05_{scheo FF04_{scheo		FF data elements FF04_{schedule}_[B FF04_{schedule}_[C FF04_{schedule}_[D FF04_{schedule}_[L FF04_{schedule}_[L FF04_{schedule}_[M FF04_{schedule}_[U FF05_{schedule_log FF05_{schedule_log FF05_{schedule_log	schedule_type]_task_ID]_task_type]_ES_date I]_EF_date]_AS_date]_AF_date ic}_[C]_schedule_type ic}_[D]_task_ID	
13. Assumptions					
14. Instructions					
 FF04_{schedule}_[C]_schedule FF05_{schedule_logic}_[C]_sc IF FF04_{schedule}_[D]_task_ FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_ OR IF FF04_{schedule}_[E]_task_ IF FF04_{schedule}_[D]_task_ FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[C]_s]_task_ID,FF04 e_type = BL, :hedule_type = ID IS IN FF04_{ schedule_type = type = M THEN type <> M THE ID IS NOT IN F schedule_type = type = M THEN	BL schedule}_[C]_sche = FC I FF04_{schedule}_[N FF04_{schedule}_[C] = BL I FF04_{schedule}_[C]	_ dule_type = FC U]_AF_date = null AND _[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date <	ified, with the following characteristics. FF04_{schedule}_[T]_AS_date = null FF04_{schedule}_[M]_EF_date OR	Y qualifier sch. type incomplete
FF04_{schedule}_[B]_CPP_sta OR IF FF04_{schedule}_[E]_task_ Determine X items, a subset of Y Identify FF05_{schedule_logic}_[I • FF05_{schedule_logic}_[C]_sc	_type <> M THE , based on the t D]_task_ID and	EN FF04_{schedule}	_ _[B]_CPP_status_date	< FF04_{schedule}_[M]_EF_date	X qualifier sch. type
Count flagged items based on the • FF05_{schedule_logic}_[F]_rel	0.1	ation(s).			qualifier operation

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path..."

16. Rev	16. Revision Block									
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by					
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank					
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank					
V02.00	Updated for release. Re-ID'ed from 06.03.02 to 06.03.03. Sections 10, 12, and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank					
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank					
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank					

DOE EVMS Metric Specification						
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency		
В	B.03.04	(06.03.04) (34)	automated	monthly		
5. Attribute						
Horizontal Integration						
6. Metric Intent						
are indicative of the actual way	the work is planne	d and accomplishe	ed at the level of detail to su	on) and clearly identify interdepende upport project longest path developm on incomplete activities in the FC IMS	ent. This	
7. Metric Short Description	on					
FC IMS SF relationships					a F	
8. Metric						
X = Number of relationships	of incomplete acti	vities in the FC IN	/IS, that are SF relationsh	ip.		
Y = Number of relationships	of incomplete acti	vities in the FC IN	NS.			
9. Max. Threshold	10. Max. To	lerance	11. Weight			
0			2.1			
12. Needed Artifacts and	Data Elements					
<u>Y artifact(s)</u> FF05_{schedule_logic} FF04_{schedule}	<u>X artifact(s)</u> FF05_{schedu FF04_{schedu		FF data elements FF04_{schedule}_[C]_s FF04_{schedule}_[D]_ta FF04_{schedule}_[E]_ta FF04_{schedule}_[T]_A FF04_{schedule}_[U]_A FF05_{schedule_logic} FF05_{schedule_logic} FF05_{schedule_logic} FF05_{schedule_logic}	ask_ID ask_type S_date \F_date _[C]_schedule_type _[D]_task_ID		
			0 /.			
13. Assumptions						
•						
13. Assumptions 14. Instructions Determine Y items based on th	e following.				Y	
14. Instructions Determine Y items based on th	[D]_task_ID,FF04_ lule_type = FC,		sk_ID items and, if identifie	d, with the following characteristics.	Y qualifier sch. type	
14. Instructions Determine Y items based on th Count FF05_{schedule_logic}_ FF04_{schedule}_[C]_sched FF05_{schedule_logic}_[C]_	[D]_task_ID,FF04_ lule_type = FC, schedule_type = F(k_type = M THEN F	C F04_{schedule}_[l	J]_AF_date = null AND FF	d, with the following characteristics. 04_{schedule}_[T]_AS_date = null	qualifier	
14. Instructions Determine Y items based on th Count FF05_{schedule_logic}_ FF04_{schedule}_[C]_sched FF05_{schedule_logic}_[C]_ IF FF04_{schedule}_[E]_task OR IF FF04_{schedule}_[E]_task	[D]_task_ID,FF04_ lule_type = FC, schedule_type = F(k_type = M THEN F k_type <> M THEN	C F04_{schedule}_[\ FF04_{schedule}_	J]_AF_date = null AND FF	, i i i i i i i i i i i i i i i i i i i	qualifier sch. type	
14. Instructions Determine Y items based on th Count FF05_{schedule_logic}_ FF04_{schedule}_[C]_sched FF05_{schedule_logic}_[C]_ IF FF04_{schedule}_logic}_[E]_task OR	[D]_task_ID,FF04_ lule_type = FC, schedule_type = F(k_type = M THEN F k_type <> M THEN f Y, based on the fo	C F04_{schedule}_[\ FF04_{schedule}_ <u>llowing.</u>	J]_AF_date = null AND FF(_[U]_AF_date = null	04_{schedule}_[T]_AS_date = null	qualifier sch. type incomplete X qualifier	
14. Instructions Determine Y items based on th Count FF05_{schedule}_logic}_ FF04_{schedule}_[C]_sched FF05_{schedule_logic}_[C]_ IF FF04_{schedule}_[E]_task OR IF FF04_{schedule}_[E]_task OR IF FF04_{schedule}_[E]_task OR IF FF04_{schedule}_[E]_task OR IF FF04_{schedule}_[E]_task	[D]_task_ID,FF04_ lule_type = FC, schedule_type = F(k_type = M THEN F k_type <> M THEN F (Y, based on the fo .[D]_task_ID and, i schedule_type = F(C F04_{schedule}_[\ FF04_{schedule}_ llowing. if identified, with th C	J]_AF_date = null AND FF(_[U]_AF_date = null	04_{schedule}_[T]_AS_date = null	qualifier sch. type Incomplete	

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path..."

Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.03.05 to 06.03.04.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 10, 12, and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

					*Diris@
1. Process Category	2. Metric II	(new, old)	3. Method	4. Frequency	
В	B.03.05	(06.03.05) (35)	automated/manual verification	monthly	
5. Attribute					
lorizontal Integration					
6. Metric Intent					
This metric confirms the networl are indicative of the actual way	the work is planne	d and accomplishe	of work (horizontal integration) and c ed at the level of detail to support pro re is limited use of SS and FF relatio	ject longest path develop	ment. This
7. Metric Short Descriptio	n				
BL IMS SS or FF relationships					a B
3. Metric					
(= Number of relationships o	of incomplete act	ivities (excludes r	nilestones) in the BL IMS, that are	SS or FF relationship.	
Y = Number of relationships of the second se Second second se	•	•	,	•	
9. Max. Threshold	10. Max. To	•	11. Weight		
15.0%	10. Max. 10	nerance	2.1		
			2.1		
12. Needed Artifacts and					
<u>Y artifact(s)</u> FF05_{schedule_logic} FF04_{schedule}	<u>X artifact(s)</u> FF05_{schedu FF04_{schedu		FF data elements FF04_{schedule}_[B]_CPP_statu FF04_{schedule}_[C]_schedule_1 FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[K]_EV_methoo FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF05_{schedule}_[O]_task_ FF05_{schedule}_logic}_[D]_task_	ype d dule_type _ID	
13. Assumptions 14. Instructions					
	fallan in a				Y
<u>Determine Y items based on the</u> Count EE05 {schedule_logic}_[I	-	{schedule logic}	[D]_task_ID,FF04_{schedule}_[D]_ta	sk ID) items and if	qualifier
dentified, with the following cha	racteristics.	_[001104410_10910]_	[_],,,		
 FF04_{schedule}_[C]_schedule FF05_{schedule_logic}_[C]_s 		I			sch. type
FF04 {schedule} [E] task ty		-			task type
OR FF04 {schedule} [E] task ty	no of EE05 (cobo	dula logicì [D] ta			
 IF FF04_{schedule}_[D]_task_t 			—		incomplete
FROM FF04_{schedule}_[C]	_schedule_type =	FC	[U]_AF_date = null AND FF04_{sche	dule}_[T]_AS_date = null	
FF04_{schedule}_[B]_CPP_s OR	_ID IS NOT IN FF _schedule_type = <_type = M THEN tatus_date < FF04	04_{schedule}_[C] BL FF04_{schedule}_ L_{schedule}_[L]_E	_schedule_type = FC [B]_CPP_status_date < FF04_{sche		
Determine X items, a subset of				/	x
dentify FF05_{schedule_logic}_			ne following characteristics.		qualifier
FF05_{schedule_logic}_[C]_s					sch. type
Count flagged items based on th		tion(s).			qualifier
 FF05_{schedule_logic}_[F]_re OR 	el_type = SS				operation
FF05_{schedule_logic}_[F]_r	el_type = FF				
Conduct the following manual o	,				manual
 Flagged activity execution no 	t substantiated.				operation

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path..."

Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

16. Revision Block date approved rev. no. description of change and sections affected date prepared prepared by approved by 2022-01-21 2022-01-21 V04.00 Updated for release. See track changes. PM-30 Melvin Frank V03.00 Updated for release. See itemized revision list. Re-2020-02-10 PM-30 2020-02-10 Melvin Frank ID'ed from 06.03.03 to 06.03.05. V02.00 Updated for release. Sections 12 and 13. 2019-07-31 PM-30 2019-07-31 Melvin Frank Melvin Frank V01.01 Updated through 2019-03-13. Minor corrections. 2019-03-13 PM-30 2019-03-14 V01.00 Updated for release. All. 2019-01-31 PM-30 2019-01-31 Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
B	B.03.06	(06.03.06) (36)	automated/manual verification	monthly	
5. Attribute	2.00.00	(*******) (***)			
Horizontal Integration					
5					
6. Metric Intent	de e els e destes de e es	1			
are indicative of the actual way	the work is plann	ed and accomplish	of work (horizontal integration) and c ed at the level of detail to support pro re is limited use of SS and FF relatio	ject longest path developr	ment. This
7. Metric Short Descriptio	on				
C IMS SS or FF relationships	i				a F
3. Metric					
K = Number of relationships (of incomplete ac	tivities (excludes	milestones) in the FC IMS, that are	SS or FF relationship.	
· Υ = Number of relationships of					
9. Max. Threshold	10. Max. T	•	11. Weight		
15.0%		olerance	2.1		
			2.1		
12. Needed Artifacts and		5			
<u>Y artifact(s)</u> FF05_{schedule_logic} FF04_{schedule}	<u>X artifact(s)</u> FF05_{scheo FF04 <u></u> {scheo		FF data elements FF04_{schedule}_[C]_schedule_1 FF04_{schedule}_[E]_task_type FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF05_{schedule_logic}_[C]_sche FF05_{schedule_logic}_[F]_rel_ty	dule_type	
13. Assumptions					
14. Instructions					
Determine Y items based on the	e following.				Y
dentified, with the following cha	aracteristics.	5_{schedule_logic}	[D]_task_ID,FF04_{schedule}_[D]_ta	isk_ID) items and, if	qualifier
FF04_{schedule}_[C]_schedule FF05_{schedule_logic}_[C]_s	schedule_type =	=C			sch. type
FF04_{schedule}_[E]_task_ty OR FF04_{schedule}_[E]_task_ty	ype of FF05_{sch				task type
IF FF04_{schedule}_[E]_task OR IF FF04_{schedule}_[E]_task			U]_AF_date = null AND FF04_{sched	lule}_[T]_AS_date = null	incomplete
Determine X items, a subset of					x
dentify FF05_{schedule_logic}			e following characteristics		qualifier
FF05_{schedule_logic}_[C]_s			le following ondraotonotion.		sch. type
					qualifier
Count flagged items based on t					operation
FF05_{schedule_logic}_[F]_r OR					
FF05_{schedule_logic}_[F]_r OR FF05_{schedule_logic}_[F]_r	rel_type = FF				manual
	rel_type = FF operation(s).				manual operation

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path..."

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V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 7, 12, and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification						
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency		
В	B.03.07	(06.03.07) (37)	automated	monthly		
5. Attribute						
Horizontal Integration						
6. Metric Intent						
are indicative of the actual way	/ the work is plann	ed and accomplishe	ed at the level of detail to a	tion) and clearly identify interdepende support project longest path developn lationships on incomplete activities ar	nent. Thi	
7. Metric Short Description	on					
BL IMS lead relationships					a B	
8. Metric						
X = Number of relationships	of incomplete ac	tivities in the BL IN	IS, with leads.			
Y = Number of relationships	of incomplete ac	tivities in the BL IN	IS.			
9. Max. Threshold	10. Max. T	olerance	11. Weight			
1.0%			2.1			
12. Needed Artifacts and	Data Element	S				
FF05_{schedule_logic} FF04_{schedule}	FF05_{schec FF04_{schec		FF04_{schedule}_[B] FF04_{schedule}_[C] FF04_{schedule}_[E] FF04_{schedule}_[L] FF04_{schedule}_[M] FF04_{schedule}_[U] FF04_{schedule}_[0] FF05_{schedule_logic FF05_{schedule_logic FF05_{schedule_logic	schedule_type task_type ES_date _EF_date AS_date _F_date }_[C]_schedule_type }_[F]_rel_type		
13. Assumptions						
14. Instructions						
 identified, with the following ch FF04_{schedule}_[C]_sched FF05_{schedule_logic}_[C]_ 	[F]_rel_type,(FF0 aracteristics. dule_type = BL, _schedule_type = I	BL		lule}_[D]_task_ID) items and, if	Y qualifier sch. type incomplete	
OR IF FF04_{schedule}_[E]_tas IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C IF FF04_{schedule}_[E]_tas FF04_{schedule}_[B]_CPP_ OR	C]_schedule_type = sk_type = M THEN k_ID IS NOT IN FI C]_schedule_type = sk_type = M THEN status_date < FFC	FC FF04_{schedule}_[N FF04_{schedule} F04_{schedule}_[C] = BL N FF04_{schedule}_[L]_E	U]_AF_date = null AND F [U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < F S_date	F04_{schedule}_[T]_AS_date = null F04_{schedule}_[M]_EF_date OR FF04_{schedule}_[M]_EF_date		
<u>Determine X items, a subset o</u>					x	
dentify FF05_{schedule_logic}			e following characteristics	S.	qualifier sch. type	
FF05_{schedule_logic}_[C]_ Count flagged items based on					qualifier	
FF05_{schedule_logic}_[G]	0 1	auon(s).			operation	
Determine if X or X/Y exceeds						

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a

critical path ... "

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V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
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V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification					
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
В	B.03.08	(06.03.08) (38)	automated	monthly	
5. Attribute					
Horizontal Integration					
6. Metric Intent					
are indicative of the actual wa	ay the work is planr	ed and accomplishe	ed at the level of detail t	ration) and clearly identify interdepende o support project longest path developn relationships on incomplete activities ar	nent. This
7. Metric Short Descript	tion				
FC IMS lead relationships					a F
8. Metric					
X = Number of relationship	s of incomplete ad	tivities in the FC IN	IS, with leads.		
Y = Number of relationship	s of incomplete ad	tivities in the FC IN	IS.		
9. Max. Threshold	10. Max. 1	olerance	11. Weight		
1.0%			2.1		
12. Needed Artifacts an	d Data Element	S			
<u>Y artifact(s)</u> FF05_{schedule_logic} FF04_{schedule}	<u>X artifact(s)</u> FF05_{sche FF04_{sche		FF data elements FF04_{schedule}_[C FF04_{schedule}_[E FF04_{schedule}_[E FF04_{schedule}_[L FF05_{schedule}_[U FF05_{schedule_log FF05_{schedule_log FF05_{schedule_log]_task_ID]_task_type]_AS_date J]_AF_date jic}_[C]_schedule_type jic}_[F]_rel_type	
13. Assumptions					
14. Instructions					
Determine Y items based on	the following.				Y
Count FF05_{schedule_logic		5_{schedule_logic}_	[D]_task_ID,FF04_{sch	edule}_[D]_task_ID) items and, if	qualifier
 FF04_{schedule}_[C]_sche FF05_{schedule_logic}_[C 		FC			sch. type
	sk_type = M THEN	FF04_{schedule}_[FF04_{schedule}_[T]_AS_date = null	incomplete
Determine X items, a subset					x
Identify FF05_{schedule_logi	c}_[F]_rel_type and	l, if identified, with th	e following characterist	ics.	qualifier
FF05_{schedule_logic}_[C					sch. type qualifier
Count flagged items based ofFF05 {schedule logic} [G		ration(s).			operation
Determine if X or X/V exceed					

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path ... "

Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

16. Revision Block

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V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category 2. Metric ID (new, old) 3. Method 4. Frequency B B, 03.09 (06.03.09) (39) automated/manual verification monthly S. Attribute Horizontal Integration Monthly Monthly Monthly 6. Metric Internt This metric confirms the network schedule describes the sequence of work (horizontal Integration) and clearly identify Interdegrate indicative of the actual way whe work is planned and accompliabed at the level of detail to support project longest path develowetric, with the integration of the schedule system, ensures that there is limited use and justification for lags > 22 work days or activities and milestones in the BL INS. 7. Metric Short Description BL IMS lags > 22 work day relationships Monthly 8. Metric X Number of relationships of incomplete activities in the BL IMS. Monthly 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 2.1 12. Needed Artifacts and Data Elements FF04_(schedule)_[D] task.[D] FF04_(schedule)_[D] task.[D] FF04_(schedule)_[D] task.[D] FF04_(schedule)_[D] task.[D] FF04_(schedule)_[D] X artifact(s) FF04_(schedule)_[D] task.[D] FF04_(schedule)_[D] task.[D] FF04_(schedule)_[D] task.[D] 9. Max. Threshold 10. Max. Tolerance 11. Weight 11. Weight 11. Weight <	
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Y artifact(s) X artifact(s) FF data elements FF05_{schedule_logic} FF05_{schedule} FF04_{schedule} D_task_ID FF04_{schedule} FF04_{schedule} D_task_ID FF04_{schedule} D_task_ID FF04_{schedule} D_task_ID FF04_{schedule} D_task_ID FF04_{schedule} D_task_ID FF04_{schedule} [U]_AF_date FF04_{schedule} [U]_AF_date FF04_{schedule} [U]_AF_date FF05_{schedule_logic} [T]_et type FF05_{schedule_logic} [D]_task_ID [D]_task_ID [D]_task_ID Schedule_logic_ [D]_task_ID [D]_task_ID [T]_et type FF05_{schedule} [O]_schedule_type BL [T]_FF04_{schedule} [C]_schedule_type Schedule_logic_[C]_schedule_type = BL [T]_FF04_{schedule} [D]_sc	
FF05_{schedule_logic} FF05_{schedule_logic} FF04_{schedule} FF04_{schedule} FF04_{schedule} C	
14. Instructions Determine Y items based on the following. Count FF05_{schedule_logic}_[D]_task_ID,FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteris • FF04_{schedule}_[C]_schedule_type = BL, FF05_{schedule}_logic}_[C]_schedule_type = BL • IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = FC IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = r OR IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_type <> M THEN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_type = M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OI	
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	incomplete
Determine X items, a subset of Y, based on the following.	x
<pre>dentify FF05_{schedule_logic}_[D]_task_ID,FF04_{schedule}_[D]_task_ID and, if identified, with the following characteristics. FF04_{schedule}_[C]_schedule_type = BL, FF05_{schedule_logic}_[C]_schedule_type = BL</pre>	qualifier sch. type
FF04_{schedule}_[AH]_justification_narrative <listing></listing>	other 1
Count flagged items based on the following operation(s).	qualifier
FF05_{schedule_logic}_[G]_lag_days > 22 work days	operation manual
Conduct the following manual operation(s). FF04 {schedule} [AH] justification narrative for lag relationship with predecessor is null or unsubstantiated.	operation
Determine if X or X/Y exceeds the threshold.	

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path..."

16. Revision Block								
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank			
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank			
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank			
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank			
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank			

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
В	B.03.10	(06.03.10) (40)	automated/manual verification	monthly	
i. Attribute					
Iorizontal Integration					
6. Metric Intent					
are indicative of the actual way	the work is plann e schedule syste	ed and accomplishe	of work (horizontal integration) and c ed at the level of detail to support pro re is limited use and justification for	oject longest path developm	nent. This
7. Metric Short Description	n				
C IMS lags > 22 work day rela	itionships				a F
3. Metric					
K = Number of relationships of	of incomplete ac	tivities in the FC I	/IS, with lags > 22 work days and	inadequate justification.	
Y = Number of relationships of	of incomplete ac	tivities in the FC I	NS.		
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0			2.1		
12. Needed Artifacts and	Data Element	5			
<u>Y artifact(s)</u> FF05_{schedule_logic} FF04_{schedule}	<u>X artifact(s)</u> FF05_{schec FF04_{schec		FF data elements FF04_{schedule}_[C]_schedule_ FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[AH]_justificati FF05_{schedule_logic}_[C]_sche FF05_{schedule_logic}_[D]_task FF05_{schedule_logic}_[F]_rel_t FF05_{schedule_logic}_[G]_lag_	ion_narrative edule_type _ID ype	
13. Assumptions					
14. Instructions					
 FF04_{schedule}_[C]_sched FF05_{schedule_logic}_[C]_: IF FF04_{schedule}_[E]_task OR 	[D]_task_ID,FF04 ule_type = FC, schedule_type = I c_type = M THEN	FC FF04_{schedule}_[sk_ID items and, if identified, with th U]_AF_date = null AND FF04_{scher	-	Y qualifier sch. type incomplete
IF FF04_{schedule}_[E]_task			_[U]_AF_date = null		x
Determine X items, a subset of			ask ID and, if identified, with the foll	owing characteristics	qualifier
FF04_{schedule}_[C]_sched FF05_{schedule_logic}_[C]_s	ule_type = FC,			owing characteristics.	sch. type
FF04_{schedule}_[AH]_justif	—	0			other 1 qualifier
Count flagged items based on t	•	()			qualifier
FF05{schedule_logic}_[G] Conduct the following manual c		irk days			manual
•	,	for lag relationship	with predecessor is null or unsubsta	ntiated.	operation
Determine if X or X/Y exceeds t	_	J			

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path..."

Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
В	B.03.11	(06.03.11) (41)	automated/manual verification	monthly	
5. Attribute					
Horizontal Integration					
6. Metric Intent					
are indicative of the actual way th	e work is planned schedule system,	and accomplished	work (horizontal integration) and clea d at the level of detail to support proje is limited use and justification for ha	ect longest path developn	nent. This
7. Metric Short Description					
BL IMS with hard constraints					a B
8. Metric					
K = Number of incomplete activ	vities in the BL IM	IS, with hard con	straints and inadequate justificatio	n.	
Y = Number of incomplete activ	rities in the BL IM	IS.			
9. Max. Threshold	10. Max. Tol	erance	11. Weight		
0			2.1		
12. Needed Artifacts and D	ata Elements				
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{schedul	e}	FF data elements FF04_{schedule}_[B]_CPP_status_ FF04_{schedule}_[C]_schedule_ty; FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[L]_ES_date FF04_{schedule}_[Q]_SC_type FF04_{schedule}_[S]_FC_type FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date	-	
			FF04_{schedule}_[AH]_justification	_narrative	
13. Assumptions				n_narrative	
14. Instructions				n_narrative	
14. Instructions Determine Y items based on the f		dontified with the	FF04_{schedule}_[AH]_justificatior	n_narrative	Y qualifier
The second secon	_ID items and, if i	dentified, with the	FF04_{schedule}_[AH]_justificatior	n_narrative	Y qualifier sch. type
14. Instructions Determine Y items based on the f Count FF04_{schedule}_[D]_task • FF04_{schedule}_[C]_schedule • IF FF04_{schedule}_[D]_task_	_ID items and, if i e_type = BL ID IS IN FF04_{sc	hedule}_[C]_sched	FF04_{schedule}_[AH]_justificatior	n_narrative	qualifier
 14. Instructions Determine Y items based on the f Count FF04_{schedule}_[D]_task FF04_{schedule}_[C]_schedule IF FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_OR IF FF04_{schedule}_[E]_task_IFF04_{schedule}_[D]_task_I FF04_{schedule}_[D]_task_I FF04_{schedule}_[D]_task_I FF04_{schedule}_[C]_s IF FF04_{schedule}_[C]_task_FF04_{schedule}_[C]_s IF FF04_{schedule}_[C]_task_FF04_{schedule}_{sc	_ID items and, if i e_type = BL ID IS IN FF04_{sc schedule_type = F type = M THEN F type <> M THEN F D IS NOT IN FF0 schedule_type = E type = M THEN F tus_date < FF04_	hedule}_[C]_sched C F04_{schedule}_[L FF04_{schedule}_ 4_{schedule}_[C]_ L F04_{schedule}_[L]_ES	FF04_{schedule}_[AH]_justification following characteristics. dule_type = FC J]_AF_date = null AND FF04_{schedu [U]_AF_date = null schedule_type = FC 3]_CPP_status_date < FF04_{schedu	_ .le}_[T]_AS_date = null .le}_[M]_EF_date OR	qualifier sch. type
14. Instructions Determine Y items based on the f Count FF04_{schedule}_[D]_task FF04_{schedule}_[C]_schedule IF FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_I FF04_{schedule}_[D]_task_I FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_FF04_{schedule}_[E]_task_FF04_{schedule}_[E]_task_FF04_{schedule}_[E]_task_IFF04_{schedule}_[E]_task_IFF04_{schedule}_[E]_task_FF04_{schedule}_[E]_task_IFF04_{schedule}_{	_ID items and, if i e_type = BL ID IS IN FF04_{sc schedule_type = F type = M THEN F type <> M THEN F D IS NOT IN FF0 schedule_type = E type = M THEN F tus_date < FF04_ type <> M THEN	hedule}_[C]_sched C F04_{schedule}_[L FF04_{schedule}_ 4_{schedule}_[C]_ L F04_{schedule}_[L]_ES FF04_{schedule}_	FF04_{schedule}_[AH]_justification following characteristics. dule_type = FC J]_AF_date = null AND FF04_{schedu [U]_AF_date = null schedule_type = FC B]_CPP_status_date < FF04_{schedu S_date	_ .le}_[T]_AS_date = null .le}_[M]_EF_date OR	qualifier sch. type
14. Instructions Determine Y items based on the f Count FF04_{schedule}_[D]_task FF04_{schedule}_[C]_schedule IF FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_I FROM FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[B]_CPP_sta OR IF FF04_{schedule}_[E]_task_ FF04_{schedule}_[E]_task_ Determine X items, a subset of Y dentify FF04_{schedule}_[D]_tas	_ID items and, if i e_type = BL ID IS IN FF04_{sc schedule_type = F type = M THEN F D IS NOT IN FF0 schedule_type = E type = M THEN F tus_date < FF04_ type <> M THEN based on the foll k_ID and, if identi	hedule}_[C]_sched C F04_{schedule}_[L 4_{schedule}_[C] L F04_{schedule}_[C]_ k schedule}_[L]_ES FF04_{schedule}_ owing.	FF04_{schedule}_[AH]_justification following characteristics. dule_type = FC J]_AF_date = null AND FF04_{schedu [U]_AF_date = null schedule_type = FC B]_CPP_status_date < FF04_{schedu S_date [B]_CPP_status_date < FF04_{schedu	_ .le}_[T]_AS_date = null .le}_[M]_EF_date OR	qualifier sch. type incomplete
14. Instructions Determine Y items based on the f Count FF04_{schedule}_[D]_task FF04_{schedule}_[C]_schedule IF FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_task_I IF FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_ FF04_{schedule}_[B]_CPP_sta OR IF FF04_{schedule}_[E]_task_ Determine X items, a subset of Y dentify FF04_{schedule}_[C]_schedule FF04_{schedule}_[C]_task_ FF04_{schedule}_[D]_tass_ FF04_{schedule}_[D]_tass_ FF04_{schedule}_[D]_tass_ FF04_{schedule}_[C]_schedule}_[D]_tass_ FF04_{schedule}_[C]_schedule}_[D]_tass_ FF04_{schedule}_[C]_schedule}_[D]_tass_ FF04_{schedule}_[C]_schedule}_[D]_tass_ FF04_{schedule}_[C]_schedule}_[C]_schedule}_[C]_schedule}_[C]_schedule}_[C]_schedule}_{schedule}_[C]_schedule}_{schedule}_[C]_schedule}_{schedule}_[C]_schedule}_[C]_schedule}_{schedule}_[C]_schedule}_{schedule}_[C]_schedule}_{schedule}_[C]_schedule}_{schedule}_[C]_schedule}_{schedule}_[C]_schedule}_{schedule}_[C]_schedule}_{s	_ID items and, if i e_type = BL D IS IN FF04_{sc schedule_type = F type = M THEN F type <> M THEN F D IS NOT IN FF0 schedule_type = E type = M THEN F type <> M THEN F type <> M THEN , based on the foll k_ID and, if identi e_type = BL	hedule}_[C]_sched C F04_{schedule}_[L FF04_{schedule}_[C] 4_{schedule}_[C] E F04_{schedule}_[L]_ES FF04_{schedule}_ FF04_{schedule} fied, with the follow	FF04_{schedule}_[AH]_justification following characteristics. dule_type = FC J]_AF_date = null AND FF04_{schedu [U]_AF_date = null schedule_type = FC B]_CPP_status_date < FF04_{schedu S_date [B]_CPP_status_date < FF04_{schedu	_ .le}_[T]_AS_date = null .le}_[M]_EF_date OR	qualifier incomplete X qualifier sch. type
 14. Instructions Determine Y items based on the f Count FF04_{schedule}_[D]_task FF04_{schedule}_[C]_schedule IF FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[E]_task_OR IF FF04_{schedule}_[D]_task_I FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[C]_task_FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_OR IF FF04_{schedule}_[E]_task_I FF04_{schedule}_[E]_task_I FF04_{schedule}_[E]_task_I FF04_{schedule}_[E]_task_I FF04_{schedule}_[E]_task_I FF04_{schedule}_[E]_task_I Determine X items, a subset of Y Identify FF04_{schedule}_[C]_schedule FF04_{schedule}_[C]_schedule FF04_{schedule}_[C]_schedule FF04_{schedule}_[C]_schedule FF04_{schedule}_[AH]_justification 	_ID items and, if i e_type = BL D IS IN FF04_{sci schedule_type = F type = M THEN F type <> M THEN F D IS NOT IN FF0 schedule_type = E type = M THEN F type <> M THEN F type <> M THEN , based on the foll k_ID and, if identi a_type = BL ation_narrative < i	hedule}_[C]_sched C F04_{schedule}_[L FF04_{schedule}_[C] 4_{schedule}_[C] BL F04_{schedule}_[L]_ES FF04_{schedule}_ FF04_{schedule} ified, with the follow	FF04_{schedule}_[AH]_justification following characteristics. dule_type = FC J]_AF_date = null AND FF04_{schedu [U]_AF_date = null schedule_type = FC B]_CPP_status_date < FF04_{schedu S_date [B]_CPP_status_date < FF04_{schedu	_ .le}_[T]_AS_date = null .le}_[M]_EF_date OR	qualifier sch. type incomplete X qualifier
14. Instructions Determine Y items based on the f Count FF04_{schedule}_[D]_task FF04_{schedule}_[C]_schedule IF FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_I FROM FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_ FF04_{schedule}_[B]_CPP_sta OR IF FF04_{schedule}_[E]_task_ Determine X items, a subset of Y Identify FF04_{schedule}_[C]_schedule FF04_{schedule}_[C]_schedule FF04_{schedule}_[AH]_justification Count flagged items based on the FF04_{schedule}_[Q]_SC_type OR	_ID items and, if i e_type = BL D IS IN FF04_{sc schedule_type = F type = M THEN F type <> M THEN F D IS NOT IN FF0 schedule_type = E type = M THEN F tus_date < FF04_ type <> M THEN based on the foll k_ID and, if identi e_type = BL ation_narrative <li e following operati = CS_MANDSTA</li 	hedule}_[C]_sched C F04_{schedule}_[L 4_{schedule}_[C] b F04_{schedule}_[C] s F04_{schedule}_[L]_ES FF04_{schedule}_ fied, with the follow sting> on(s).	FF04_{schedule}_[AH]_justification following characteristics. dule_type = FC J]_AF_date = null AND FF04_{schedu [U]_AF_date = null schedule_type = FC B]_CPP_status_date < FF04_{schedu 5_date [B]_CPP_status_date < FF04_{schedu ving characteristics.	_ .le}_[T]_AS_date = null .le}_[M]_EF_date OR	qualifier sch. type incomplete X qualifier sch. type other 1
 14. Instructions Determine Y items based on the f Count FF04_{schedule}_[D]_task FF04_{schedule}_[C]_schedule IF FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[E]_task_OR IF FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_GR IF FF04_{schedule}_[E]_task_GR IF FF04_{schedule}_[E]_task_GR IF FF04_{schedule}_[E]_task_GR FF04_{schedule}_[E]_task_GR IF FF04_{schedule}_[C]_stask_GR IF FF04_{schedule}_[C]_task_GR FF04_{schedule}_[C]_schedule FF04_{schedule}_[C]_schedule FF04_{schedule}_[AH]_justificat Count flagged items based on the set of the set	_ID items and, if i e_type = BL D IS IN FF04_{sc schedule_type = F type = M THEN F type <> M THEN F D IS NOT IN FF0 schedule_type = E type = M THEN F type <> M THEN F type <> M THEN F type <> M THEN F tus_date < FF04_ type <> M THEN based on the foll k_ID and, if identia e_type = BL ation_narrative following operatia e = CS_MANDSTA	hedule}_[C]_sched C F04_{schedule}_[L 4_{schedule}_[C] b F04_{schedule}_[C] s F04_{schedule}_[L]_ES FF04_{schedule}_ fied, with the follow sting> on(s).	FF04_{schedule}_[AH]_justification following characteristics. dule_type = FC J]_AF_date = null AND FF04_{schedu [U]_AF_date = null schedule_type = FC B]_CPP_status_date < FF04_{schedu 5_date [B]_CPP_status_date < FF04_{schedu ving characteristics.	_ .le}_[T]_AS_date = null .le}_[M]_EF_date OR	qualifier sch. type incomplete X qualifier sch. type other 1 qualifier
14. Instructions Determine Y items based on the f Count FF04_{schedule}_[D]_task FF04_{schedule}_[C]_schedule IF FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_I FROM FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[D]_task_I FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[B]_CPP_sta OR IF FF04_{schedule}_[B]_CPP_sta OR IF FF04_{schedule}_[E]_task_ Determine X items, a subset of Y dentify FF04_{schedule}_[C]_schedule FF04_{schedule}_[C]_schedule FF04_{schedule}_[AH]_justification Count flagged items based on the FF04_{schedule}_[Q]_SC_type OR	_ID items and, if i e_type = BL D IS IN FF04_{sci schedule_type = F type = M THEN F type <> M THEN F D IS NOT IN FF0 schedule_type = E type = M THEN F type <> M THEN F type <> M THEN F type <> M THEN F type <> M THEN F tus_date < FF04_ type <> M THEN based on the foll k_ID and, if identia a_type = BL ation_narrative following operatia e = CS_MANDFIN eration(s).	hedule}_[C]_sched C F04_{schedule}_[L FF04_{schedule}_[C] sL F04_{schedule}_[C]_ schedule}_[L]_ES FF04_{schedule}_ fied, with the follow sting> on(s). NRT or CS_MSO or CS	FF04_{schedule}_[AH]_justification following characteristics. dule_type = FC J]_AF_date = null AND FF04_{schedu [U]_AF_date = null schedule_type = FC B]_CPP_status_date < FF04_{schedu s_date [B]_CPP_status_date < FF04_{schedu s_date ing characteristics.	_ .le}_[T]_AS_date = null .le}_[M]_EF_date OR	qualifier sch. type incomplete X qualifier sch. type other 1 qualifier operation

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path..."

16. Rev	16. Revision Block									
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by					
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank					
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.03.12 to 06.03.11.	2020-02-10	PM-30	2020-02-10	Melvin Frank					
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank					
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank					
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank					

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
В	B.03.12	(06.03.12) (42)	automated/manual verification	monthly	
5. Attribute					
Horizontal Integration					
6. Metric Intent					
are indicative of the actual wa	y the work is plann he schedule syste	ed and accomplish	of work (horizontal integration) and c ed at the level of detail to support pro re is limited use and justification for l	oject longest path developn	nent. This
7. Metric Short Descripti	on				
FC IMS with hard constraints					a F
8. Metric					
X = Number of incomplete a	ctivities in the FC	IMS, with hard co	nstraints and inadequate justificat	tion.	
Y = Number of incomplete a	ctivities in the FC	IMS.			
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0			2.1		
12. Needed Artifacts and	l Data Element	5			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{scheo	lule}	FF data elements FF04_{schedule}_[C]_schedule_ FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[Q]_SC_type FF04_{schedule}_[S]_FC_type FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[AH]_justificati		
13. Assumptions					
14. Instructions					
Determine Y items based on t	he following.				Y
Count FF04_{schedule}_[D]_t		if identified, with the	e following characteristics.		qualifier sch. type
 FF04_{schedule}_[C]_sche IF FF04_{schedule}_[E]_tas OR IF FF04_{schedule}_[E]_tas 	k_type = M THEN		U]_AF_date = null AND FF04_{scher _[U]_AF_date = null	dule}_[T]_AS_date = null	incomplete
Determine X items, a subset c	of Y, based on the	ollowing.			x
Identify FF04_{schedule}_[D]_	task_ID and, if ide	ntified, with the follo	owing characteristics.		qualifier
 FF04_{schedule}_[C]_sche 	_ / /				sch. type
 FF04_{schedule}_[AH]_just 	—	U U			other 1
Count flagged items based on			AT CS MOOD		qualifier
 FF04_{schedule}_[Q]_SC_t OR 	ype = CS_MANDS	TART OF CS_MSO	OL CO MOOR		operation
FF04_{schedule}_[S]_FC_t	ype = CS_MANDF	IN or CS_MEO or C	CS_MEOB		
Conduct the following manual	• • • • •				manual
 FF04_{schedule}_[AH]_just 	ification_narrative	for hard constraint i	s null or unsubstantiated.		operation

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path..."

Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.03.11 to 06.03.12.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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1. Process Category	2. Metric II) (new, old)	3. Method	4. Frequency	
В	B.03.13	(06.03.13) (43)	automated/manual verification	monthly	
5. Attribute					
Horizontal Integration					
6. Metric Intent					
are indicative of the actual way th	ne work is planne schedule syster	ed and accomplishe	of work (horizontal integration) and clo ed at the level of detail to support proj re is limited use and justification for so	ect longest path developr	nent. This
7. Metric Short Description	1				
3L IMS soft constraints relationsh	nips				a B
8. Metric					
X = Number of incomplete activ	vities in the BL	IMS, with soft cor	nstraints and inadequate justification	on.	
Y = Number of incomplete activ	vities in the BL	IMS.			
9. Max. Threshold	10. Max. To	olerance	11. Weight		
15.0%			2.1		
12. Needed Artifacts and D	ata Elements	5			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{sched	ule}	FF data elements FF04_{schedule}_[B]_CPP_status FF04_{schedule}_[C]_schedule_t FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[Q]_SC_type FF04_{schedule}_[C]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[AH]_justification	ype	
13. Assumptions					
14. Instructions					
Determine Y items based on the					Y qualifier
Count FF04_{schedule}_[D]_task FF04 {schedule} [C] schedule 		f identified, with the	e following characteristics.		sch. type
 IF FF04_{schedule}_[D]_task_ 		schedule} [C] sche	edule type = FC		incomplete
OR IF FF04_{schedule}_[E]_task_ IF FF04_{schedule}_[D]_task_ FROM FF04_{schedule}_[C]_s	_type = M THEN _type <> M THEN ID IS NOT IN FF schedule_type = _type = M THEN	FF04_{schedule}_ N FF04_{schedule}_ 04_{schedule}_[C] BL FF04_{schedule}_	_schedule_type = FC [B]_CPP_status_date < FF04_{sched		
OR IF FF04_{schedule}_[E]_task_	_type <> M THE	N FF04_{schedule}	[B]_CPP_status_date < FF04_{sche	edule}_[M]_EF_date	
Determine X items, a subset of Y					x
dentify FF04_{schedule}_[D]_tas	_	ntified, with the follo	owing characteristics.		qualifier sch. type
 FF04_{schedule}_[C]_schedule FF04 {schedule} [AH] justification 		clisting>			other 1
Count flagged items based on the FF04_{schedule}_[Q]_SC_type OR	e following opera e = CS_MSOA	ation(s).			qualifier operation
FF04_{schedule}_[S]_FC_type	—	CS_MEOA			manual
Conduct the following manual ope • FF04_{schedule}_[AH]_justification	. ,	or soft constraint is	null or unsubstantiated.		manual
Determine if X or X/Y exceeds the	<u>e threshold.</u>				

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

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16. Rev	16. Revision Block										
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V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank						
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank						
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank						
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank						

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
В	B.03.14	(06.03.14) (44)	automated/manual verification	monthly	
5. Attribute					
Horizontal Integration					
6. Metric Intent					
are indicative of the actual way	y the work is plan he schedule syste	ned and accomplishe	of work (horizontal integration) and cl ed at the level of detail to support pro re is limited use and justification for s	ject longest path developr	nent. This
7. Metric Short Descripti	on				
FC IMS soft constraints relatio	nships				a F
8. Metric					
X = Number of incomplete ad	ctivities in the F0	CIMS, with soft con	straints and inadequate justification	on.	
Y = Number of incomplete ad	ctivities in the F0	CIMS.			
9. Max. Threshold	10. Max. 1	Tolerance	11. Weight		
15.0%			2.1		
12. Needed Artifacts and	l Data Elemen	ts			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{sche	dule}	FF data elements FF04_{schedule}_[C]_schedule_t FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[Q]_SC_type FF04_{schedule}_[S]_FC_type FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[AH]_justification		
13. Assumptions					
14. Instructions					
Determine Y items based on the	he following.				Y
Count FF04_{schedule}_[D]_ta	_	if identified, with the	following characteristics.		qualifier
 FF04_{schedule}_[C]_schedule} IF FF04_{schedule}_[E]_tas OR IF FF04_{schedule}_[E]_tas 	k_type = M THEN		J]_AF_date = null AND FF04_{sched [U] AF_date = null	lule}_[T]_AS_date = null	sch. type
Determine X items, a subset o					x
Identify FF04_{schedule}_[D]_	task_ID and, if id	entified, with the follo	wing characteristics.		qualifier
 FF04_{schedule}_[C]_schedule 					sch. type
 FF04_{schedule}_[AH]_just 	_	•			other 1
Count flagged items based on FF04_{schedule}_[Q]_SC_t OR	0,	ration(s).			qualifier
FF04_{schedule}_[S]_FC_ty	ype = CS_ALAP o	or CS_MEOA			
Conduct the following manual	• • • • •				manual
 FF04_{schedule}_[AH]_just 	ification_narrative	for soft constraint is	null or unsubstantiated.		operation
Determine if X or X/Y exceeds	the threshold.				

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

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Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

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V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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1. Process Category	2. Metric	D (new, old)	3. Method	4. Frequency	
В	B.03.15	(06.07.03) (45)	automated	monthly	
5. Attribute					
Horizontal Integration					
6. Metric Intent					
This metric ensures that incom	plete discrete act	ivities with an immed	diate LOE predecessor(s	s) in the project BL IMS.	
7. Metric Short Description	on				
BL IMS discrete successor with	LOE predecess	or relationships			а
8. Metric					
X = Number of relationships	of incomplete di	screte activities in	the BL IMS, with imme	diate successors to LOE predecesso	ors.
Y = Number of relationships	of incomplete di	screte activities in	the BL IMS.		
9. Max. Threshold	10. Max. 1	olerance	11. Weight		
0			2.1		
12. Needed Artifacts and	Data Element	s			
<u>Y artifact(s)</u> FF05_{schedule_logic} FF04_{schedule}	<u>X artifact(s)</u> FF05_{sche FF04_{sche		<u>FF data elements</u> FF04_{schedule}_[B] FF04_{schedule}_[C]		
			FF04_{schedule}_[D] FF04_{schedule}_[E] FF04_{schedule}_[K] FF04_{schedule}_[L] FF04_{schedule}_[M] FF04_{schedule}_[T] FF04_{schedule}_[U]	_task_type _EV_method _ES_date]EF_date _AS_date	
13. Assumptions			FF05_{schedule_logi	ic}_[C]_schedule_type ic}_[D]_task_ID ic}_[E]_predecessor_ID	
-					
14. Instructions	- fallanda a				Y
Determine Y items based on th Count FF05_{schedule_logic}_ • FF05_{schedule_logic}_[C] FF04 {schedule} [C] sched	[D]_task_ID,FF0 schedule_type =		sk_ID items and, if identi	ified, with the following characteristics.	qualifier sch. type
 IF FF04_{schedule}_[D]_task 	_ , ,	{schedule}_[C]_sche	dule_type = FC		incomplete
FROM FF04_{schedule}_[C IF FF04_{schedule}_[E]_tas OR IF FF04 {schedule} [E] tas	k_type = M THE	NFF04_{schedule}_[FF04_{schedule}_[T]_AS_date = null	
IF FF04_{schedule}_[D]_tasl FROM FF04_{schedule}_[C]	<_ID IS NOT IN F]_schedule_type k_type = M THE	F04_{schedule}_[C] = BL N FF04_{schedule}_	_schedule_type = FC [B]_CPP_status_date <	FF04_{schedule}_[M]_EF_date OR	
		_, ,	[B]_CPP_status_date <	< FF04_{schedule}_[M]_EF_date	EVT
Determine X items, a subset of					x
Identify FF05_{schedule_logic}		—	l, with the following char	acteristics.	qualifier sch. type
 FF05_{schedule_logic}_[C]_ Count flagged items based on f 					qualifier
 FF04_{schedule}_[K]_EV_m 					operation
Determine if X or X/Y exceeds	the threshold.				

15. Reference(s)

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished. The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

					Daniso
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
В	B.03.16	(06.07.04) (46)	automated	monthly	
5. Attribute					
Horizontal Integration					
6. Metric Intent					
This metric ensures that incom	plete discrete ac	tivities with an immed	liate LOE predecessor(s) in the project FC IMS.	
7. Metric Short Description	on				
C IMS discrete successor with	h LOE predecess	or relationships			а
8. Metric					
K = Number of relationships	of incomplete d	iscrete activities in	the FC IMS, with imme	ediate successors to LOE activities.	
Y = Number of relationships	of incomplete d	iscrete activities in	the FC IMS.		
9. Max. Threshold	10. Max. '	Folerance	11. Weight		
0			2.1		
2. Needed Artifacts and	Data Elemen	ts			
<u>Y artifact(s)</u> FF05_{schedule_logic} FF04_{schedule}	<u>X artifact(s)</u> FF05_{sche FF04_{sche		FF05_{schedule_log]_task_ID]_task_type]_EV_method]_AS_date]_AF_date ic}_[C]_schedule_type	
13. Assumptions					
14. Instructions					
 FF05_{schedule_logic}_[C]_ FF04_{schedule}_[C]_sched IF FF04_{schedule}_[E]_task OR 	[D]_task_ID,FF0 schedule_type = lule_type = FC <_type = M THEN	FC, I FF04_{schedule}_[l	_ J]_AF_date = null AND	tified, with the following characteristics. FF04_{schedule}_[T]_AS_date = null	Y qualifier sch. type incomplete
IF FF04_{schedule}_[E]_tasl FF04_{schedule}_[K]_EV_m		_, ,_			EVT
<u>Determine X items, a subset of</u>	Y, based on the	following.			x
dentify FF05_{schedule_logic}		—	l, with the following cha	racteristics.	qualifier sch. type
FF05_{schedule_logic}_[C]_ Count flagged items based on t					qualifier
Journ naqueu nemis pased on i	uie ioliowing ope	auuuus).			-
FF04 {schedule} [K] EV m	ethod = I OF				operation

15. Reference(s)

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished. The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

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V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

			300
1. Process Category	2. Metric ID (new, old)	3. Method 4. Frequenc	;y
В	B.04.01 (06.04.01) (47)	automated/manual monthly	
5. Attribute			
/ertical Integration			
. Metric Intent			
ubcontractor and field level sche	edules) and that all levels of schedu	consistency of data between various levels of schedu iles align. This metric identifies incomplete activities w ame activities in the master schedule and/or the proje	vith BL start and
. Metric Short Description	1		
L IMS start or finish dates outsi	de top level schedule		1
. Metric			
x = Number of incomplete active epicted at the top level sched		finish dates outside the higher level project BL sta	art or finish dates
<pre>/ = Number of incomplete activ</pre>	vities in the BL IMS.		
). Max. Threshold	10. Max. Tolerance	11. Weight	
0		1.9	
2. Needed Artifacts and D	ata Elements		
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{schedule} master or customer BL schedule	FF data elements FF04_{schedule}_[B]_CPP_status_date FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date	
13. Assumptions			
4. Instructions			
Determine Y items based on the Count FF04_{schedule}_[D]_task FF04_{schedule}_[C]_schedul FF04_{schedule}_[E]_task_typ	LID items and, if identified, with the e_type = BL	e following characteristics.	Y qualifier sch. type task type
FROM FF04_{schedule}_[C] IF FF04_{schedule}_[E]_task_ OR IF FF04_{schedule}_[E]_task_ IF FF04_{schedule}_[D]_task_	_type = M THEN FF04_{schedule}_ _type <> M THEN FF04_{schedule} ID IS NOT IN FF04_{schedule}_[C]	 [U]_AF_date = null AND FF04_{schedule}_[T]_AS_dat _[U]_AF_date = null	incomplete
FF04_{schedule}_[B]_CPP_st	_type = MTHEN FF04_{schedule}_ atus_date < FF04_{schedule}_[L]_E	[B]_CPP_status_date < FF04_{schedule} [M]_EF_da S_date _[B]_CPP_status_date < FF04_{schedule} [M]_EF_c	
FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date	-		other 1 other 2
etermine X items, a subset of Y			X
	sed on the following operation(s). e < master or customer BL schedule	start date	qualifier
	e > master or customer BL schedul	e finish date	
Determine if V or V/V evenede th			

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "...The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

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V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
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V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
В	B.04.02	(06.04.02) (48)	automated/manual	monthly	
5. Attribute					
ertical Integration					
6. Metric Intent					
ubcontractor and field level sc	chedules) and that al	l levels of schedule	es align. This metric identifies	arious levels of schedules includ i incomplete activities with FC st chedule and/or the project sched	artand
. Metric Short Description	on				
C IMS start or finish dates out	tside top level sched	ule			I
. Metric					
a = Number of incomplete ac rom the higher level master				MS, with start and finish dates	s differei
' = Number of incomplete ac	tivities (excludes s	ummaries, SMs, S	SVTs, and ZBAs) in the FC	MS.	
). Max. Threshold	10. Max. Tol	erance	11. Weight		
0			1.9		
2. Needed Artifacts and	Data Elements				
<u>′artifact(s)</u> F04_{schedule}	X artifact(s) FF04_{schedul master or custo	e} imer FC schedule	FF data elements FF04_{schedule}_[C]_sche FF04_{schedule}_[D]_task FF04_{schedule}_[E]_task FF04_{schedule}_[L]_ES_c FF04_{schedule}_[M]_EF_r FF04_{schedule}_[T]_AS_c FF04_{schedule}_[U]_AF_r	ID Type late date date	
3. Assumptions					
4. Instructions					
etermine Y items based on th	e following.				Y
Count FF04_{schedule}_[D]_ta		dentified, with the f	ollowing characteristics.		qualifier
 FF04_{schedule}_[C]_schedule_type = FC 				sch. type	
 FF04_{schedule}_[E]_task_type = A or M 				task type	
IF FF04_{schedule}_[E]_task OR	K_type = M THEN FF	·04_{schedule}_[0]	_AF_date = null AND FF04_	{schedule}_[T]_AS_date = null	incomplete
IF FF04_{schedule}_[E]_tasl	k_type <> M THEN I	F04_{schedule}_[U]_AF_date = null		
FF04_{schedule}_[L]_ES_da	ate <listing></listing>				other 1
FF04_{schedule}_[M]_EF_d	ate <listing></listing>				other 2
etermine X items, a subset of	f Y, based on the foll	owing.			x
		U ()	start date		qualifier operation
Manually count flagged items b FF04_{schedule}_[L]_ES_da OR FF04_ (schedule)_[M]_FF_d			finich data		
FF04_{schedule}_[L]_ES_da	ate > master or cust	omer FC schedule	finish date		

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "...The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

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V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

B,04.03 (06.04.03) (49) automated/manual monthly Attribute						0 spinso
Attribute International integration Metric Internation Metric Internation Metric Internation Metric Short Description ClMS start of finish dates different from the FC start and finish dates listed in the project schedules induce that all levels of schedules align. This metric identifies incomplete activities found in upplemental schedules with FC start and finish dates listed in the project schedule. Metric Short Description ClMS start of finish dates different from supplemental FC schedule Metric Metric Incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS, with start and finish dates differer from the start and finish dates differer from supplemental FC schedule. Metric Complete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. Max. Threshold Max. Tolerance Metric Schedule, IC Schedule, I	1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
ertical Integration	3	B.04.03	(06.04.03) (49)	automated/manual	monthly	
Metric Intent Netric confirms that there is vertical schedule integration, (i.e., consistency of data between various levels of schedules including ubcontractor and finish dates activities of schedules align. This metric identifies incomplete activities found in upplemental schedules used to the project schedule. . Metric Short Description . C IMS start of finish dates different from supplemental FC schedule . . Metric . . Metric Short Description . . Metric . . Max. Threshold 10. Max. Tolerance 11. Weight . Max. Threshold 10. Max. Tolerance 11. Weight . Schedule) FO4_(schedule) Max. Threshold Max. Threshold Metric (schedule) . . </td <td>5. Attribute</td> <td></td> <td></td> <td></td> <td></td> <td></td>	5. Attribute					
his metric confirms that there is vertical schedule integration, (i.e., consistency of data between various levels of schedules including ubcontractor and field level schedules) and that all levels of schedules align. This metric identifies incomplete activities (start and finish dates different from the FC start and finish dates listed in the project schedule. . Metric Short Description C IMS start of finish dates different from supplemental FC schedule . Metric . Metric . Metric . Metric . Metric . Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS, with start and finish dates different from the start and finish dates in the supplemental FC schedule In the start and finish dates in the supplemental FC schedule Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS, with start and finish dates different from supplemental FC schedule In the start and finish dates in the supplemental FC schedule Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS Max. Threshold 10. Max. Tolerance 11. Weight . Max. Threshold FFO4_[schedule], C] schedule_TVpe FFO4_[schedule], C] schedule_TVP FFO4_[schedule], C] schedule, TV, Schedule, C], Schedule, C], Schedule, TV, Schedule, C], Schedule, C], Schedule, C], Schedule, C], Schedule, C], Schedule, C], Schedule, TV, Schedule, C], Schedule, C], Schedule, TV, Schedule, C], Schedule, C], Schedule, TV, Schedule, C], Schedule, TV, Schedule, C], Schedule, TV, Schedule, C], Schedule, TV, Schedule, TV, Schedule, C], Schedule, TV, Schedu	ertical Integration					
ubcontractor and field level schedules) and that all levels of schedules align. This metric identifies incomplete activities found in upplemental schedules with FC start and finish dates different from the FC start and finish dates listed in the project schedule. 4 Metric C IMS start or finish dates different from supplemental FC schedule 4 Metric F Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS, with start and finish dates 5 Metric Start and finish dates in the supplemental FC schedule. 5 Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. 5 Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. 5 Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. 5 Needed Artifacts and Data Elements 5 FC04_(schedule) [C]_schedule, [VP = FC04 5 FC04_(schedule) [C]_schedule], [VP = FC04 5 FC04_(schedule) [C]_schedule], [VP = fC04_(schedule), [VP = fC04	6. Metric Intent					
C IMS start or finish dates different from supplemental FC schedule A Metric Shumber of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS, with start and finish dates different from the start and finish dates in the supplemental FC schedule. Shumber of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS, with start and finish dates different from the start and finish dates in the supplemental FC schedule. Max. Threshold (a.Max. Tolerance 1.9 A striffact(s) FO4_schedule) T= Striffact sand = Striffact (SS) FO4_schedule) Striffact sand = Striffact (SS) FO4_schedule) Striffact sand = Striffact (SS) FO4_schedule) Striffact (SS) FO4_schedule) Striffact (SS) FO4_schedule) Striffact (SS) FO4_schedule) Striffact (SS) Striffact	subcontractor and field level sch	edules) and that a	all levels of schedul	es align. This metric identifie	s incomplete activities found in	ing
A Metric A Metric A Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS, with start and finish dates differe from the start and finish dates in the supplemental FC schedule. A max. Threshold 10. Max. Tolerance 11. Weight 0 1.9 2. Needed Artifacts and Data Elements artifact(s) X artifact(s) FF04_(schedule). [O] task. ID FF04_(schedule). [D] task. JD FF04_(schedule). [D] task. JP FF04_(schedule). [D] task. JP FF04_(. Metric Short Description	n				
i = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS, with start and finish dates differer rom the start and finish dates in the supplemental FC schedule. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. I = Number of incomplete activities and, if identified, with the following characteristics. I = FF04_(schedule)_[D]_task_type = A or M I = FF04_(schedule)_[D]_task_type = A or M THEN FF04_{(schedule)_[U]_AF_date = null AND FF04_{(schedule)_[T]_AS_date = null AND FF04_{(schedule)_[E]_task_type <> M THEN FF04_{(schedule)_[U]_AF_date = null I = FF04_{(schedule)_[E]_task_type <> M THEN FF04_{(schedule)_[U]_AF_date = null I = FF04_{(schedule)_[E]_task_type <> M THEN FF04_{(schedule)_[U]_AF_date = null AND FF04_{(schedule)_[E]_task_type <> M THEN FF04_{(schedule)_[U]_AF_date = null AND FF04_{(schedule)_[E]_task_type <> M THEN FF04_{(schedule)_[C]_task_type <> M I = FF04_{(schedule)_[E]_task_type <> M THEN FF04_{(schedule)_[C]_task_type <> M I = FF04_{(schedule)_[E]_task_type <> M THEN FF04_{(schedule)	C IMS start or finish dates diffe	rent from supplen	nental FC schedule			I
room the start and finish dates in the supplemental FC schedule. Termine 7 incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. Amax. Threshold 10. Max. Tolerance 11. Weight 1.9 2. Needed Artifacts and Data Elements FO4_(schedule) Termine 7 incomplete activities (excludes summaries, SMs, SVTs, and ZBAs) in the FC IMS. 3. Assumptions FF04_(schedule) [C]_schedule_type FF04_(schedule] [C]_schedule_type = FC FF04_(schedule] [C]_schedule_type = FC FF04_(schedule] [C]_task_type = A or M IF FF04_(schedule] [C]_task_type = A or M IF FF04_(schedule] [C]_task_type = A or M IF FF04_(schedule] [C]_task_type > M THEN FF04_{schedule} [U]_AF_date = null AND FF04_{schedule] [T]_AS_date = null FF04_{schedule} [L]_task_type > M THEN FF04_{schedule} [U]_AF_date = null AND FF04_{schedule} [T]_AS_date = null FF04_{schedule} [L]_task_type > M THEN FF04_{schedule} [U]_AF_date = null FF04_{schedule} [L]_ES_date < prime contractor's supplemental schedule FC finish date FF04_{schedule} [M]_EF_date <> prime contractor's supplemental schedule FC finish date FF04_{schedule} [M]_EF_date <> prime contractor's supplemental schedule FC finish date	8. Metric					
Max. Threshold 10. Max. Tolerance 11. Weight 0 1.9 2. Needed Artifacts and Data Elements 'artifact(s) X artifact(s) FF data elements FF04_(schedule) FF04_(schedule) FF04_(schedule) FF04_(schedule) prime contractor's supplemental FF04_(schedule) FF04_(schedule) FF04_(schedule) schedules Schedule) FF04_(schedule) FF04_(schedule) FF04_(schedule) attast Schedule) FF04_(schedule) FF04_(schedule) FF04_(schedule) Schedule) J. Assumptions Schedule) Schedule) FF04_(schedule) Schedule) Schedule) <td></td> <td></td> <td></td> <td>SVTs, and ZBAs) in the FC</td> <td>IMS, with start and finish dates</td> <td>s differen</td>				SVTs, and ZBAs) in the FC	IMS, with start and finish dates	s differen
0 1.9 2. Needed Artifacts and D=tements 'artifact(s) Xartifact(s) FF04_(schedule) [C] schedule_1/De schedule_1/De schedule] [D] schedule_1/De schedule] [D] task [D] prime contractor's supplemental schedule] [D] task [D] task [D] schedule] [D] task [D]	I = Number of incomplete action	ivities (excludes	summaries, SMs,	SVTs, and ZBAs) in the FC	IMS.	
2. Needed Artifacts and Data Elements artifact(s) X artifact(s) FE data elements F04_{schedule}} FF04_{schedule}_{10} task_ 1D prime contractor's supplemental schedule}_[10]_task_ 1D FF04_{schedule}_[10]_task_ 1D schedules FF04_{schedule}_[10]_task_ 1D FF04_{schedule}_[10]_excluse]_M1_EF_date FF04_{schedule}_[10]_AS_date FF04_{schedule}_[10]_AS_date FF04_{schedule}_[10]_AS_date FF04_{schedule}_[10]_AS_date FF04_{schedule}_[10]_AS_date Stassumptions V All instructions V Prod_{schedule}_[10]_task_tpp = FC sch. type FF04_{schedule}_[10]_task_tpp = FC sch. type FF04_{schedule}_[10]_task_tpp = A or M sta type IF FF04_{schedule}_[10]_task_tpp = M THEN FF04_{schedule}_[10]_AF_date = null sta type OR ref4_{schedule}_[10]_task_tpp = M THEN FF04_{schedule}_[10]_AF_date = null schedule_{schedule}_{schedul	9. Max. Threshold	10. Max. To	lerance	11. Weight		
artifact(s) X artifact(s) FF data elements F04_(schedule) FF04_(schedule) FF04_(schedule)_[C]_schedule_type FF04_(schedule) FF04_(schedule)_[D]_task_ID schedules FF04_(schedule)_[L]_ES date FF04_(schedule)_[U]_AF_date FF04_(schedule)_[U]_AF_date 3. Assumptions 4. Instructions 4. Instructions betermine Y items based on the following. 5. Second 	0			1.9		
F04_(schedule) FF04_(schedule) FF04_(schedule)_[C]_schedule_type prime contractor's supplemental schedule FF04_(schedule)_[D]_task_ID FF04_(schedule)_[D]_task_ID FF04_(schedule)_[I]_E5_date FF04_(schedule)_[M]_EF_date FF04_(schedule)_[I]_E5_date FF04_(schedule)_[I]_E5_date FF04_(schedule)_[D]_task_ID tetermine Y items based on the following. ount FF04_(schedule)_[D]_task_ID tetermine Y items based on the following. ount FF04_(schedule)_[D]_task_ID tetermine Y items based on the following. ount FF04_(schedule)_[D]_task_ID tetermine Y items based on the following. ount FF04_(schedule)_[D]_task_ID tetermine Y items based on the following. reference reference FF04_(schedule)_[E]_task_type = A or M IF FF04_(schedule)_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null reference Schedule]_[L]_ES_date reference Schedule]_[L]_ES_date reference Schedule]_[L]_ES_date reference Schedule]_[L]_ES_date <> prime contractor's supplemental schedule FC start date OR Schedule]_[L]_ES_date <> prime contractor's supplemental schedule FC fin	2. Needed Artifacts and I	Data Elements				
4. Instructions betermine Y items based on the following. Count FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics. FF04_{schedule}_[C]_schedule_type = FC FF04_{schedule}_[E]_task_type = A or M IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null OR IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null FF04_{schedule}_[L]_ES_date <listing> other1 FF04_{schedule}_[M]_EF_date <listing> other2 Petermine X items, a subset of Y, based on the following operation(s). FF04_{schedule}_[L]_ES_date <> prime contractor's supplemental schedule FC start date OR FF04_{schedule}_[M]_EF_date <> prime contractor's supplemental schedule FC finish date</listing></listing>	<u>Y artifact(s)</u> FF04_{schedule}	FF04_{scheduprime contract		FF04_{schedule}_[C]_sch FF04_{schedule}_[D]_task FF04_{schedule}_[E]_task FF04_{schedule}_[L]_ES_ FF04_{schedule}_[M]_EF_ FF04_{schedule}_[T]_AS_	ID type date date _date	
Vetermine Y items based on the following. v Sount FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics. qualifier FF04_{schedule}_[C]_schedule_type = FC sch. type FF04_{schedule}_[E]_task_type = A or M task type IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null incomplete OR IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null other 1 FF04_{schedule}_[L]_ES_date <listing> other 1 FF04_{schedule}_[M]_EF_date <listing> other 2 Vetermine X items, a subset of Y, based on the following. x Annually count flagged items based on the following operation(s). qualifier FF04_{schedule}_[L]_ES_date <> prime contractor's supplemental schedule FC start date operation OR FF04_{schedule}_[M]_EF_date <> prime contractor's supplemental schedule FC finish date operation</listing></listing>	13. Assumptions					
Pretermine Y items based on the following. qualifier Sount FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics. qualifier FF04_{schedule}_[C]_schedule_type = FC sch. type FF04_{schedule}_[E]_task_type = A or M task type IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null incomplete OR IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null other 1 FF04_{schedule}_[L]_ES_date <listing> other 2 other 2 Petermine X items, a subset of Y, based on the following. x qualifier Annually count flagged items based on the following operation(s). FF04_{schedule}_[L]_ES_date <> prime contractor's supplemental schedule FC start date operation OR FF04_{schedule}_[M]_EF_date <> prime contractor's supplemental schedule FC finish date operation</listing>	4. Instructions					
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null other 1 FF04_{schedule}_[L]_ES_date <listing> other 2 FF04_{schedule}_[M]_EF_date <listing> x Manually count flagged items based on the following operation(s). quaifier FF04_{schedule}_[L]_ES_date <> prime contractor's supplemental schedule FC start date operation OR FF04_{schedule}_[M]_EF_date <> prime contractor's supplemental schedule FC finish date Vetermine if X or X/Y exceeds the threshold. Vetermine if X or X/Y exceeds the threshold.</listing></listing>	Count FF04_{schedule}_[D]_tas FF04_{schedule}_[C]_schedu FF04_{schedule}_[E]_task_ty IF FF04_{schedule}_[E]_task_	k_ID items and, if lle_type = FC pe = A or M		-	_{schedule}_[T]_AS_date = null	qualifier sch. type task type
Alexing a subset of Y, based on the following. x Manually count flagged items based on the following operation(s). qualifier FF04_{schedule}_[L]_ES_date <> prime contractor's supplemental schedule FC start date operation OR FF04_{schedule}_[M]_EF_date <> prime contractor's supplemental schedule FC finish date Determine if X or X/Y exceeds the threshold. V/Y exceeds the threshold.	IF FF04_{schedule}_[E]_task_ FF04_{schedule}_[L]_ES_dat	e <listing></listing>	FF04_{schedule}_	[U]_AF_date = null		
Manually count flagged items based on the following operation(s). qualifier FF04_{schedule}_[L]_ES_date <> prime contractor's supplemental schedule FC start date operation OR FF04_{schedule}_[M]_EF_date <> prime contractor's supplemental schedule FC finish date Determine if X or X/Y exceeds the threshold. Operation		•	llowing			x
	fanually count flagged items ba FF04_{schedule}_[L]_ES_date OR	e <> prime contra	ing operation(s). ctor's supplemental			
5. Reference(s)	Determine if X or X/Y exceeds the	ne threshold.				
	5. Reference(s)					

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "...The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE EVMS Me	etric Specifica	ation	AND IN THE OWNER OF
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency	
В	B.05.01 (06.05.01) (50)	automated	monthly	
5. Attribute				
ntegrated Master Schedule (IN	IS) Resources			
6. Metric Intent				
	rk schedule assigns resources to all lestones. This metric ensures resour		uding SVT activities, SM activities, ZE the BL schedule.00	A
7. Metric Short Description	on			
BL IMS without resources				a B
8. Metric				
K = Number of incomplete ac	tivities (excludes milestones, SMs	, SVTs, and ZBAs) in the I	BL IMS, without resources.	
Y = Number of incomplete ac	tivities (excludes milestones, SMs	, SVTs, and ZBAs) in the I	BL IMS.	
9. Max. Threshold	10. Max. Tolerance	11. Weight		
0		1.7		
12. Needed Artifacts and	Data Elements			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF06_{schedule_resources}	FF06_{schedule_resour FF06_{schedule_resour	chedule_type isk_ID isk_type S_date F_date S_date F_date BAC ces}_[C]_schedule_type ces}_[E]_task_ID	
13. Assumptions				
14. Instructions				
Determine Y items based on th				Y qualifier
Count FF04_{schedule}_[D]_ta · FF04 {schedule} [C] sched	sk_ID items and, if identified, with the	e following characteristics.		guaimer sch. type
	ype <> SVT or SM or ZBA or M			task type
 IF FF04_{schedule}_[D]_tasl FROM FF04_{schedule}_[C 	<_ID IS IN FF04_{schedule}_[C]_sch			incomplete

IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null OR IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = BL IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[L]_ES_date

IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date

Determine X items, a subset of Y, based on the following.

Identify FF06_{schedule_resources}_[E]_task_ID and, if identified, with the following characteristics.	qualifier
 FF06_{schedule_resources}_[C]_schedule_type = BL 	sch. type
Count flagged items based on the following operation(s).	qualifier
 FF06_{schedule_resources}_[I]_budget_units = 0/null 	operation
OR	

FF06_{schedule_resources}_[J]_budget_dollars = 0/null

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 12, Typical Attribute(s): "Resource estimates from the budget plan are reasonable and resources are available to support the schedule."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification					
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
В	B.05.02	(06.05.02) (51)	automated	monthly	
5. Attribute					
Integrated Master Schedule (IN	/IS) Resources				
6. Metric Intent					
This metric confirms the netwo activities, SM activities, and mi				ccluding SVT activities, SM activities, Z ort the FC schedule.	ΒA
7. Metric Short Description	on				
FC IMS without resources					a F ⊦
8. Metric					
X = Number of incomplete ac	tivities (excludes	milestones, SMs,	SVTs, and ZBAs) in th	e FC IMS, without resources.	
Y = Number of incomplete ac	tivities (excludes	milestones, SMs,	SVTs, and ZBAs) in th	e FC IMS.	
9. Max. Threshold	10. Max. To	lerance	11. Weight		
0			1.7		
12. Needed Artifacts and	Data Elements				
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF06_{schedu	ile_resources}	FF06_{schedule_reso FF06_{schedule_reso	_task_ID task_type AS_date _AF_date]_BAC urces}_[C]_schedule_type	
13. Assumptions					
14. Instructions					
Determine Y items based on th Count FF04_{schedule}_[D]_ta • FF04_{schedule}_[C]_sched • FF04_{schedule}_[E]_task_t • IF FF04_{schedule}_[E]_task OR IF FF04_{schedule}_[E]_task	isk_ID items and, if lule_type = FC type <> SVT or SM k_type = M THEN F	or ZBA or M F04_{schedule}_[\	J]_AF_date = null AND F	F04_{schedule}_[T]_AS_date = null	Y qualifier sch. type task type incomplete
Determine X items, a subset of Identify FF06_{schedule_resources} • FF06_{schedule_resources} Count flagged items based on t • FF06_{schedule_resources} OR FF06_{schedule_resources}	Y, based on the fo irces}_[E]_task_ID _[C]_schedule_type the following opera _[I]_budget_units =	llowing. and, if identified, w e = FC tion(s). 0/null		eristics.	X qualifier sch. type qualifier operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 12, Typical Attribute(s): "Resource estimates from the budget plan are reasonable and resources are available to support the schedule."

16. Revision Block								
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank			
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank			
V02.00	Updated for release. Sections 6, 12, and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank			
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank			
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank			

DOE EVMS Metric Specification						
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency			
В	B.05.03 (06.05.03) (52)	automated	monthly			
5. Attribute						
Integrated Master Schedule (IN	MS) Resources					
6. Metric Intent						
This metric confirms the netwo and milestones in the BL IMS.	ork schedule does not assign resource	es to incomplete SVT activi	ties, SM activities, ZBA activities, SM activities			
7. Metric Short Description	on					
BL IMS milestones, SMs, SVT	s, and ZBAs with resources		a B			
8. Metric						
X = Number of incomplete m	ilestone, SM, SVT, and ZBA activiti	ies in the BL IMS, with res	sources.			
Y = Number of incomplete m	ilestone, SM, SVT, and ZBA activiti	ies in the BL IMS.				
9. Max. Threshold	10. Max. Tolerance	11. Weight				
0		1.7				
12. Needed Artifacts and	l Data Elements					
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF06_{schedule_resources}	FF06_{schedule_resou FF06_{schedule_resou	schedule_type ask_ID ask_type ES_date EF_date AS_date AF_date BAC rcces}_[C]_schedule_type irces}_[E]_task_ID			
13. Assumptions						
14. Instructions						

14. Instructions

Determine Y items based on the following.	Y
Count FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics.	qualifier
 FF04 {schedule} [C] schedule type = BL 	sch. type
 FF04 {schedule} [E] task type = SVT or SM or ZBA or M 	task type
 IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = FC 	incomplete
IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_ OR	_date = null
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = BL	
IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[L]_ES_date OR	⁻ _date OR
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_E	EF_date
Determine X items, a subset of Y, based on the following.	x
Identify FF06_{schedule_resources}_[E]_task_ID and, if identified, with the following characteristics.	qualifier
 FF06_{schedule_resources}_[C]_schedule_type = BL 	sch. type
Count flagged items based on the following operation(s).	qualifier
 FF06_{schedule_resources}_[I]_budget_units <> 0/null OR 	operation
FE06 (appendule recourses) [1] budget dellars <> O [20]	

FF06_{schedule_resources}_[J]_budget_dollars <> 0/null OR

FF04_{schedule}_[AF]_BAC <> 0/null

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 12, Typical Attribute(s): "Resource estimates from the budget plan are reasonable and resources are available to support the schedule."

16. Revision Block

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rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 6, 12, and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification				
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency	
В	B.05.04 (06.05.04) (53)	automated	monthly	
5. Attribute				
Integrated Master Schedule (IMS) Resources			
6. Metric Intent				
This metric confirms the netw and milestones in the FC IMS	5	es to incomplete SVT acti	vities, SM activities, ZBA activities, SM activitie	
7. Metric Short Descript	ion			
FC IMS milestones, SMs, SV	Ts, and ZBAs with resources		a F	
8. Metric				
X = Number of incomplete r	nilestone, SM, SVT, and ZBA activit	ies in the FC IMS, with re	esources.	
Y = Number of incomplete r	nilestone, SM, SVT, and ZBA activit	ies in the FC IMS.		
9. Max. Threshold	10. Max. Tolerance	11. Weight		
0		1.7		
12. Needed Artifacts an	d Data Elements			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF06_{schedule_resources} FF04_{schedule}	FF06_{schedule_resc FF06_{schedule_resc	task_ID task_type AS_date _AF_date _BAC urces}_[C]_schedule_type	
13. Assumptions				
14. Instructions				
Determine Y items based on	the following.		Y	
	task_ID items and, if identified, with th	e following characteristics		
 FF04_{schedule}_[C]_sche FF04_{schedule}_[C]_track 			sch. type task type	
 IF FF04_{schedule}_[E]_ta OR 	_type = SVT or SM or ZBA or M sk_type = M THEN FF04_{schedule}_ sk_type <> M THEN FF04_{schedule}			
Determine X items, a subset (x	
	ources} [E] task ID and, if identified, v	with the following characte	eristics. qualifier	
 FF06_{schedule_resources 		<u> </u>	sch. type	

FFU e_resources}_[C]_schedule_type

Count flagged items based on the following operation(s). • FF06_{schedule_resources}_[I]_budget_units <> 0/null

OR FF06_{schedule_resources}_[J]_budget_dollars <> 0/null OR

FF04_{schedule}_[AF]_BAC <> 0/null

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 12, Typical Attribute(s): "Resource estimates from the budget plan are reasonable and resources are available to support the schedule."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

qualifier

operation

			-		(D) STATE
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
В	B.05.06	(06.05.06) (54)	automated/manual verification	monthly	
5. Attribute					
ntegrated Master Schedule	(IMS) Resources				
6. Metric Intent					
This metric confirms SVT act engineering support subcont		es is action oriented	and represents funding, and ZBA ac	ctivities are not limited to c	onstructic
7. Metric Short Descrip	tion				
C IMS SVT with resources	and ZBA unsubsta	ntiated			а
8. Metric					
X = Number of incomplete 1. SVT activities with resou 2. ZBA activities are not lim	rces is action ori nited to construct	ented and represen ion engineering sup	ts funding, or oport subcontract activities.		
Y = Number of incomplete	activities in the F	C IMS.			
9. Max. Threshold	10. Max. '	Tolerance	11. Weight		
20.0%			1.7		
12. Needed Artifacts an	nd Data Elemen	ts			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{sche		<u>FF data elements</u> FF04_{schedule}_[C]_schedule_ FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type	type	
			FF04_{schedule}_[L]_tas_tipe FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date		
13. Assumptions					
14. Instructions					
Determine Y items based on	the following.				Y
Count FF04_{schedule}_[D]_		, if identified, with the	e following characteristics.		qualifier
 FF04_{schedule}_[C]_schedule} 					sch. type
 IF FF04_{schedule}_[E]_ta OR 	ask_type = M THE	N FF04_{schedule}_[U]_AF_date = null AND FF04_{sched	dule}_[1]_AS_date = null	incomplete
IF FF04_{schedule}_[E]_ta	ask_type <> M TH	EN FF04_{schedule}	_[U]_AF_date = null		
<u>Determine X items, a subset</u>	of Y, based on the	following.			x
Identify FF04_{schedule}_[D]	_task_ID and, if id	entified, with the follo	owing characteristics.		qualifier
FF04_{schedule}_[C]_schedule	edule_type = FC				sch. type
Count flagged items based o	n the following ope	eration(s).			qualifier
FF04_{schedule}_[E]_task	_type = SVT or ZE	BA			operation
Conduct the following manua	al operation(s).				manual
 1. SVT activities with resound 2. ZBA activities are not line 					operation
Determine if X or X/Y exceed	Is the threshold.				
15. Reference(s)					
	: "Resource estima	tes from the budget	plan are reasonable and resources a	are available to support the	schedu
, . , r					

Page 12, Typical Attribute(s): "Resource estimates from the budget plan are reasonable and resources are available to support the schedule." **16. Revision Block**

Sion Blook					
description of change and sections affected	date prepared	prepared by	date approved	approved by	
Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank	
Updated for release. New metric.	2020-02-10	PM-30	2020-02-10	Melvin Frank	
	description of change and sections affected Updated for release. See track changes.	description of change and sections affected date prepared Updated for release. See track changes. 2022-01-21	description of change and sections affecteddate preparedprepared byUpdated for release. See track changes.2022-01-21PM-30	description of change and sections affected date prepared prepared by date approved Updated for release. See track changes. 2022-01-21 PM-30 2022-01-21	description of change and sections affecteddate preparedprepared bydate approvedapproved byUpdated for release. See track changes.2022-01-21PM-302022-01-21Melvin Frank

DOE EVMS Metric Specification							
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency			
В	B.05.07	(06.06.02) (55)	manual	initially & semi-annually to align with horizo planning increments			
5. Attribute							
Integrated Master Schedule (IMS) Resources						
6. Metric Intent							
This metric assesses the reas availability, and the hours nee			g the activity's duration co	onsidering resource requirements and			
7. Metric Short Descript	tion						
BL IMS resource loading not	reasonable			1			
8. Metric							
X = Number of activities by resource start and finish da N/A		L IMS that are not	resourced or the activity	/ start and finish dates do not align with the			
9. Max. Threshold	10. Max. T	olerance	11. Weight				
0		olerance	1.7				
12. Needed Artifacts an	d Data Element	S					
	<u>X artifact(s)</u> xer BL						
13. Assumptions							
Review resource profiles in P profile options > check remair			ource usage profile > right	t-click in profile graph box > resource usage			
14. Instructions							
Conduct the following manual	l operation(s)			manual			

Conduct the following manual operation(s).

• Resource loading in the BL schedule is not reasonable when compared against resource requirements, resource availability, and operation WP and PP durations.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 19, Typical Attribute(s): "Resource plan. Identifies the resources needed to accomplish the work and assign resources to tasks in the integrated master schedule."

16. Rev	. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank			
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank			
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank			
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank			
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank			

DOE EVMS Metric Specification							
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency			
В	B.05.08	(06.06.03) (56)	manual	initially & semi-annually to align with horizo planning increments			
5. Attribute							
Integrated Master Schedule (IMS) Resources						
6. Metric Intent							
This metric assesses the reas availability, and the hours need			ng the activity's duration or	onsidering resource requirements and			
7. Metric Short Descript	tion						
FC IMS resource loading not	reasonable			I			
8. Metric							
X = Number of activities by resource start and finish da		C IMS that are not	resourced or the activity	v start and finish dates do not align with the			
N/A							
9. Max. Threshold	10. Max. 1	Folerance	11. Weight				
0			1.7				
12. Needed Artifacts an	d Data Elemen	ts					
	<u>X artifact(s)</u> xer FC						
13. Assumptions							
Review resource profiles in P profile options > check remain			ource usage profile > right	-click in profile graph box > resource usage			
14. Instructions							
Conduct the following manual	l operation(s)			manual			

Conduct the following manual operation(s).

• Resource loading in the FC schedule is not reasonable when compared against resource requirements, resource availability, and operation WP and PP durations.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 19, Typical Attribute(s): "Resource plan. Identifies the resources needed to accomplish the work and assign resources to tasks in the integrated master schedule."

16. Rev	. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank			
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank			
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank			
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank			
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank			

1. Process Category	2. Metric II	D (new, old)	3. Method	4. Frequency	
В	B.06.01	(06.06.01) (57)	automated	monthly	
5. Attribute					
Schedule Detail					
6. Metric Intent					
				es in the BL IMS. This metric with s are available to support the BL IM	
7. Metric Short Description	1				
BL IMS > 44 work days					a B /
8. Metric					
X = Number of incomplete activ duration > 44 work days.	vities (excludes	milestones, sumr	naries, SMs, SVTs, ZBAs,	EVT LOEs, and PPs) in the BL IM	/IS, with
Y = Number of incomplete activ	vities (excludes	milestones, sumr	naries, SMs, SVTs, ZBAs,	EVT LOEs, and PPs) in the BL IM	IS.
9. Max. Threshold	10. Max. To	olerance	11. Weight		
10.0%			1.8		
12. Needed Artifacts and D	ata Elements	;			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{sched	ule}	FF data elements FF04_{schedule}_[B]_CI FF04_{schedule}_[C]_sc FF04_{schedule}_[D]_ta FF04_{schedule}_[E]_ta: FF04_{schedule}_[K]_EV FF04_{schedule}_[L]_ES FF04_{schedule}_[L]_ES FF04_{schedule}_[M]_E FF04_{schedule}_[M]_E FF04_{schedule}_[M]_E FF04_{schedule}_[M]_E FF04_{schedule}_[M]_A FF04_{schedule}_[U]_A FF04_{schedule}_[W]_O	chedule_type sk_ID sk_type V_method S_date F_date S_date F_date F_date	
13. Assumptions					
14. Instructions					
OR IF FF04_{schedule}_[E]_task_ IF FF04_{schedule}_[D]_task_ FROM FF04_{schedule}_[C]_s	<pre>c_ID items and, i e_type = BL be = A ID IS IN FF04_{{ schedule_type = type = M THEN ID IS NOT IN FF schedule_type = type = M THEN type <> M THEN</pre>	schedule}_[C]_sche FC FF04_{schedule}_[N FF04_{schedule}_ 04_{schedule}_[C]_ BL FF04_{schedule}_[L]_E N FF04_{schedule}_[L]_E	dule_type = FC U]_AF_date = null AND FF([U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < FF(S_date	04_{schedule}_[T]_AS_date = null 04_{schedule}_[M]_EF_date OR =04_{schedule}_[M]_EF_date	Y qualifier sch. type task type incomplete
Determine X items, a subset of Y Identify FF04_{schedule}_[D]_tas Count flagged items based on the • FF04_{schedule}_[W]_orig_du Determine if X or X/Y exceeds the	<u>, based on the fo</u> sk_ID and, if ider e following opera ration > 44 work	<u>ollowing.</u> ntified, with the follo ation(s).	wing characteristics.		X qualifier qualifier operation

15. Reference(s)

Page 11, Intent: "There is a clear definition of what constitutes commencement and completion of each work package and planning package (or lower-level task/activity)."

Page 12, Typical Attribute(s): "The baseline schedule is the basis for measuring performance."

16. Revision Block

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rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

				No. of the second se
1. Process Category	2. Metric II	D (new, old)	3. Method	4. Frequency
В	B.07.01	(06.03.15) (58)	manual	monthly
5. Attribute				
Critical Path and Float				
6. Metric Intent				
are indicative of the actual way the metric assesses the adequacy of	e work is planne the FC IMS net	ed and accomplishe work logic by simula	d at the level of detail to s ating a schedule slip using	on) and clearly identify interdependencies the upport project longest path development. T a select number of discrete activities within verifies any changes made to the end
7. Metric Short Description				
FC IMS push test				
8. Metric				
X = FC IMS push test result is n	ot consistent v	with change.		
N/A				
9. Max. Threshold	10. Max. To	olerance	11. Weight	
0			2.7	
12. Needed Artifacts and Da	ata Elements	5		
	<u>X artifact(s)</u> xer FC			
13. Assumptions				
14. Instructions				
 Conduct the following manual ope Push Test Constrain CD-4 activity (or ac Choose a discrete activity willongest path. Add 500 day duration to the s Reschedule the project. Verify the results. The total float of the statuse The change to the end miles Che agative float toal is read LOE did not become a long 	ctivity at end of thin the current selected activity ed activities are stone which sho	6 month window th now prior minus 500 build be negative by	at is discrete and between) days. the same amount as 5a.	manual operation 10 to 100 days total float and not on es were impacted.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "The scheduling process establishes an integrated master schedule (IMS) that is the logical sequence of all authorized discrete work that leads through all key milestones, events, or decision points required to ensure completion of the project's objectives."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path... The schedule should be designed for effective integrated program management purposes and contain a critical path for the entire contractual period of performance."

Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 7 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification							
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency			
В	B.07.02	(06.03.16) (59)	manual	monthly			
5. Attribute							
Critical Path and Float							
6. Metric Intent							
are indicative of the actual wa metric assesses the adequacy	y the work is plan y of the FC IMS ne rifies that the prio	ned and accomplishe etwork logic by simul r longest path remai	ed at the level of detail to s ating a schedule adjustme	ion) and clearly identify interdependencies th upport project longest path development. Thi nt by changing the constraint date to the curr he simulation ensures that LOE is not driving			
7. Metric Short Descript	ion						
FC IMS pull test							
8. Metric							
X = FC IMS pull test result is	not consistent	with change.					
N/A							
9. Max. Threshold	10. Max. '	Folerance	11. Weight				
0			2.7				
12. Needed Artifacts and	d Data Elemen	ts					
	<u>X artifact(s)</u> xer FC						
13. Assumptions							
14. Instructions							
Conduct the following manual	operation(s)			manual			
 Pull Test #1 Select the last discrete at 2. Change the constraint da 3. Reschedule the project. Verify the results. a. No discrete activity shot b. The prior longest path s Pull Test #2 	ctivity in the scheo ite to the current s uld have 0 or posit	tatus date. tive float.	ed.	operation			

- 1. Select a future LOE activity.
- 2. Change the start date to the current status date.
- 3. Reschedule the project.
- 4. Verify results.
- a. No other discrete activities should be associated with the repositioning of the LOE activity.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "The scheduling process establishes an integrated master schedule (IMS) that is the logical sequence of all authorized discrete work that leads through all key milestones, events, or decision points required to ensure completion of the project's objectives."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path... The schedule should be designed for effective integrated program management purposes and contain a critical path for the entire contractual period of performance."

Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

16. Rev	16. Revision Block								
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by				
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank				
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank				
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank				
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank				
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank				

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
B	B.07.03	(06.03.17) (60)	automated/manual verification	monthly	
5. Attribute					
Critical Path and Float					
6. Metric Intent					
			of work (horizontal integration) and cl ed at the level of detail to support pro		
7. Metric Short Description	on				
BL IMS on longest path					a B A
8. Metric					
X = Number of incomplete ac	tivities (excludes	EVT LOEs) in the	BL IMS, on the longest path.		
Y = Number of incomplete ac	tivities (excludes	EVT LOEs) in the	BL IMS.		
9. Max. Threshold	10. Max. T	olerance	11. Weight		
40.0%			2.7		
12. Needed Artifacts and	Data Element	5			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{schec	lule}	FF data elements FF04_{schedule}_[B]_CPP_statu: FF04_{schedule}_[C]_schedule_t FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[K]_EV_method FF04_{schedule}_[I]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[I]_AS_date FF04_{schedule}_[D]_AF_date FF04_{schedule}_[AB]_is_critical	ype	
13. Assumptions					
14. Instructions					Y
OR IF FF04_{schedule}_[E]_tas IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C IF FF04_{schedule}_[E]_tas FF04_{schedule}_[B]_CPP_ OR	ask_ID items and, dule_type = BL k_ID IS IN FF04_{ }]_schedule_type = sk_type = M THEN sk_type <> M THE k_ID IS NOT IN FI]_schedule_type = sk_type = M THEN status_date < FF0 sk_type <> M THE	schedule}_[C]_sche FC FF04_{schedule}_ N FF04_{schedule}_ F04_{schedule}_[C] BL I FF04_{schedule}_[L]_E	edule_type = FC [U]_AF_date = null AND FF04_{sched _[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < FF04_{sche	dule}_[M]_EF_date OR	, qualifier sch. type incomplete
Determine X items, a subset of		ollowing.			x
Identify FF04_{schedule}_[D]_t Count flagged items based on • FF04_{schedule}_[AB]_is_c Conduct the following manual of • The longest path is not rease Determine if X or X/Y exceeds	task_ID and, if ide the following oper ritical = yes operation(s). onably defined.	ntified, with the follo	wing characteristics.		qualifier qualifier operation manual operation

15. Reference(s)

Page 11, Intent: "The scheduling process establishes an integrated master schedule (IMS) that is the logical sequence of all authorized discrete work that leads through all key milestones, events, or decision points required to ensure completion of the project's objectives."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path... The schedule should be designed for effective integrated program management purposes and contain a critical path for the

entire contractual period of performance."

Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

16. Rev	16. Revision Block								
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by				
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank				
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank				
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank				
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank				
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank				

	0 M () ·			4 =	
1. Process Category	2. Metric II	,	3. Method automated/manual verification	4. Frequency	
В	B.07.04	(06.03.18) (61)	automated/manual verification	monthly	
5. Attribute					
Critical Path and Float					
6. Metric Intent					
		•	of work (horizontal integration) and cle ed at the level of detail to support proj		
7. Metric Short Description					
FC IMS on longest path					a F
8. Metric					
X = Number of incomplete activ	ities (excludes	EVT LOEs) in the	FC IMS, on the longest path.		
Y = Number of incomplete activ	ities (excludes	EVT LOEs) in the	FC IMS.		
9. Max. Threshold	10. Max. To	olerance	11. Weight		
40.0%			2.7		
12. Needed Artifacts and Da	ata Elements	;			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{sched	ule}	FF data elements FF04_{schedule}_[C]_schedule_ty FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[K]_EV_method FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[AB]_is_critical		
13. Assumptions					
14. Instructions					
 14. Instructions Determine Y items based on the following. Count FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics. FF04_{schedule}_[C]_schedule_type = FC IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null OR IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null FF04_{schedule}_[K]_EV_method <> LOE 					Y qualifier sch. type incomplete
Determine X items, a subset of Y, Identify FF04_{schedule}_[D]_tasl Count flagged items based on the • FF04_{schedule}_[AB]_is_critic Conduct the following manual ope • The longest path is not reasonan Determine if X or X/Y exceeds the	based on the for LD and, if ider following opera al = yes ration(s). bly defined.	ntified, with the follo	wing characteristics.		X qualifier qualifier operation manual operation

15. Reference(s)

Page 11, Intent: "The scheduling process establishes an integrated master schedule (IMS) that is the logical sequence of all authorized discrete work that leads through all key milestones, events, or decision points required to ensure completion of the project's objectives."

Page 12, Typical Attribute(s): "The schedule describes the sequence of work and should consider the significant interdependencies that are indicative of the actual way the work is to be accomplished..."

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path... The schedule should be designed for effective integrated program management purposes and contain a critical path for the entire contractual period of performance."

Page 12, Typical Attribute(s): "The schedule network relationships support the development of a critical path for development projects."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
В	B.07.05	(06.07.01) (62)	automated	monthly	
5. Attribute					
Critical Path and Float					
6. Metric Intent					
This metric ensures that LOE wo	ork is not on the	longest path through	n the BL IMS.		
7. Metric Short Description	1				
BL IMS, LOE on longest path					a B A
8. Metric					
X = Number of incomplete activ	vities (only EV	T LOEs) in the BL I	MS, on the longest path	۱.	
Y = Number of incomplete activ	vities (only EV	T LOEs) in the BL I	MS.		
9. Max. Threshold	10. Max. 1	Folerance	11. Weight		
0			2.7		
12. Needed Artifacts and D	Data Element	ts			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{sche xer BL	dule}	FF data elements FF04_{schedule}_[B] FF04_{schedule}_[C] FF04_{schedule}_[D] FF04_{schedule}_[E] FF04_{schedule}_[K] FF04_{schedule}_[M] FF04_{schedule}_[M] FF04_{schedule}_[U] FF04_{schedule}_[U] FF04_{schedule}_[AE	_schedule_type _task_ID _task_type _EV_method _ES_date _EF_date _AS_date _AF_date	
13. Assumptions					
14. Instructions					
OR IF FF04_{schedule}_[E]_task IF FF04_{schedule}_[D]_task_ FROM FF04_{schedule}_[C]_ IF FF04_{schedule}_[E]_task FF04_{schedule}_[B]_CPP_st OR	k_ID items and le_type = BL ID IS IN FF04_ schedule_type _type = M THEI _type <> M THE ID IS NOT IN F schedule_type _type = M THE atus_date < FF	{schedule}_[C]_sche = FC N FF04_{schedule}_[EN FF04_{schedule}_ F04_{schedule}_[C] = BL N FF04_{schedule}_[L]_E	dule_type = FC U]_AF_date = null AND F _[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < F S_date	FF04_{schedule}_[T]_AS_date = null FF04_{schedule}_[M]_EF_date OR	Y qualifier sch. type incomplete
IF FF04_{schedule}_[E]_taskFF04_{schedule}_[K]_EV_met		EN FF04_{schedule}	_[B]_CPP_status_date <	<pre>FF04_{schedule}_[M]_EF_date</pre>	EVT
Determine X items, a subset of Y					x
Identify FF04_{schedule}_[D]_ta: Count flagged items based on th • FF04_{schedule}_[AB]_is_criti	e following ope		wing characteristics.		qualifier qualifier operation
Determine if X or X/Y exceeds th	e threshold.				

15. Reference(s)

Page 11, Intent: "The scheduling process establishes an integrated master schedule (IMS) that is the logical sequence of all authorized discrete work that leads through all key milestones, events, or decision points required to ensure completion of the project's objectives."

Page 12, Typical Attribute(s): "The critical path is comprised of the longest sequence of tasks driving project completion."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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1. Process Category	2. Metric II	D (new, old)	3. Method	4. Frequency	
В	B.07.06	(06.07.02) (63)	automated/manual verification	monthly	
5. Attribute					
Critical Path and Float					
6. Metric Intent					
This metric ensures that LOE v	work is not on the l	ongest path through	n the FC IMS.		
7. Metric Short Description	on				
FC IMS, LOE on longest path					a F
8. Metric					
X = Number of incomplete ac	ctivities (only EVT	LOEs) in the FC I	MS, on the longest path.		
Y = Number of incomplete ac	ctivities (only EVT	LOEs) in the FC I	MS.		
9. Max. Threshold	10. Max. Te	olerance	11. Weight		
0			2.7		
12. Needed Artifacts and	Data Elements	5			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{sched xer FC	ule}	FF data elements FF04_{schedule}_[C]_schedule_ty FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[K]_EV_method FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[AB]_is_critical		
13. Assumptions					
14. Instructions					
 14. Instructions Determine Y items based on the following. Count FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics. FF04_{schedule}_[C]_schedule_type = FC IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null OR <pre>IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null</pre> FF04_{schedule}_[K]_EV_method = LOE 					Y qualifier sch. type incomplete
Determine X items, a subset of Identify FF04_{schedule}_[D]_ Count flagged items based on • FF04_{schedule}_[AB]_is_c Determine if X or X/Y exceeds	<u>f Y, based on the fi</u> task_ID and, if iden the following opera ritical = yes	ntified, with the follo	wing characteristics.		X qualifier qualifier operation

15. Reference(s)

Page 11, Intent: "The scheduling process establishes an integrated master schedule (IMS) that is the logical sequence of all authorized discrete work that leads through all key milestones, events, or decision points required to ensure completion of the project's objectives."

Page 12, Typical Attribute(s): "The critical path is comprised of the longest sequence of tasks driving project completion."

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V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE EVMS N	letric Specific	ation	
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency	
В	B.07.07 (06.07.05) (64) automated	monthly	
5. Attribute		,	·	
Critical Path and Float				
6. Metric Intent				
A merge hotspot is an indicat the activity in question is asso	ion as to how complex the start of a	n activity is, and if the numbe and/or the activity will be del	15 predecessor activities in the proje r of links is > 15, there is a high prol ayed due to the cumulative effect of	bability that
7. Metric Short Descript	lion			
BL IMS with > 15 predecesso	ors			a B
8. Metric				
	activities (excludes summaries, S	Ms, SVTs, ZBAs, and EVT L	OEs) in the BL IMS, with > 15 pre-	decessor
Y = Number of incomplete a	activities (excludes summaries, S	Ms. SVTs. ZBAs. and EVT L	OEs) in the BL IMS.	
9. Max. Threshold	10. Max. Tolerance			
	10. Max. Tolerance	11. Weight		
5.0%		2.7		
12. Needed Artifacts an	d Data Elements			
<u>Y artifact(s)</u> FF04_{schedule} FF01_{WBS}	<u>X artifact(s)</u> FF05_{schedule_logic}	FF data elements FF04_{schedule}_[B]_(FF04_{schedule}_[C]_; FF04_{schedule}_[D]_; FF04_{schedule}_[E]_t FF04_{schedule}_[K]_I FF04_{schedule}_[U]_/ FF05_{schedule_logic} FF05_{schedule_logic}	schedule_type task_ID EV_method AS_date AF_date }_[C]_schedule_type	
13. Assumptions				
14. Instructions				
Determine Y items based on	the following			Y
	task_ID items and, if identified, with	the following characteristics.		qualifier
 FF04_{schedule}_[C]_schedule} 				sch. type
 FF04_{schedule}_[E]_task 	_type = A or M			task type
FROM FF04_{schedule}_ IF FF04_{schedule}_[E]_ta OR IF FF04_{schedule}_[E]_ta IF FF04_{schedule}_[D]_ta FROM FF04_{schedule}_[] IF FF04_{schedule}_[E]_ta	ask_type = M THEN FF04_{schedul ask_type <> M THEN FF04_{schedul sk_ID IS NOT IN FF04_{schedule}_	= e}_[U]_AF_date = null AND FI lle}_[U]_AF_date = null [C]_schedule_type = FC e}_[B]_CPP_status_date < FI		incomplete
	ask_type <> M THEN FF04_{sched method <> LOE	ule}_[B]_CPP_status_date < I	FF04_{schedule}_[M]_EF_date	EVT
Determine X items, a subset				x
	c}_[E]_predecessor_ID and, if ident	ified, with the following charac	cteristics.	qualifier
 FF05_{schedule_logic}_[C 		,		sch. type
Count flagged items based o				qualifier
 FF05_{schedule_logic}_[E] predecessor ID >15			operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "...The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.07.06 to 06.07.05.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency	
В	B.07.08 (06.07.06) (65)	automated	monthly	
5. Attribute				
Critical Path and Float				
6. Metric Intent				
A merge hotspot is an indication he activity in question is associ	plete discrete activities and milestor n as to how complex the start of an iated with the wrong predecessor, a rder for the activity to start on time.	activity is, and if the number o	f links is > 15, there is a high prob	ability tha
7. Metric Short Descriptio	on			
C IMS with > 15 predecessors	3			a F
8. Metric				
X = Number of incomplete act activities.	tivities (excludes summaries, SM	s, SVTs, ZBAs, and EVT LOI	Es) in the FC IMS, with > 15 pred	lecessor
Y = Number of incomplete act	tivities (excludes summaries, SM	s, SVTs, ZBAs, and EVT LOI	Es) in the FC IMS.	
9. Max. Threshold	10. Max. Tolerance	11. Weight		
5.0%		• -		
		2.7		
12. Needed Artifacts and	Data Elements	2.7		
	Data Elements <u>X artifact(s)</u> FF05_{schedule_logic}	2.7 <u>FF data elements</u> FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[T]_AS FF04_{schedule}_[U]_AF FF05_{schedule_logic}_[FF05_{schedule_logic}_[sk_ID k_type ′_method _date C]_schedule_type	
12. Needed Artifacts and <u>Y artifact(s)</u> =F04_{schedule}	X artifact(s)	<u>FF data elements</u> FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[K]_EV FF04_{schedule}_[T]_AS FF04_{schedule}_[U]_AF FF05_{schedule_logic}_[sk_ID k_type ′_method _date C]_schedule_type	
12. Needed Artifacts and Y artifact(s) F04_{schedule} 13. Assumptions	X artifact(s)	<u>FF data elements</u> FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[K]_EV FF04_{schedule}_[T]_AS FF04_{schedule}_[U]_AF FF05_{schedule_logic}_[sk_ID k_type ′_method _date C]_schedule_type	
12. Needed Artifacts and (artifact(s) FF04_{schedule} 13. Assumptions 14. Instructions	<u>X artifact(s)</u> FF05_{schedule_logic}	<u>FF data elements</u> FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[K]_EV FF04_{schedule}_[T]_AS FF04_{schedule}_[U]_AF FF05_{schedule_logic}_[sk_ID k_type ′_method _date C]_schedule_type	Y
12. Needed Artifacts and (artifact(s) F04_{schedule} 13. Assumptions 14. Instructions Determine Y items based on the	<u>X artifact(s)</u> FF05_{schedule_logic}	FF data elements FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[K]_EV FF04_{schedule}_[K]_EV FF04_{schedule}_[U]_AF FF05_{schedule_logic}_[FF05_{schedule_logic}_[sk_ID k_type ′_method _date C]_schedule_type	Y qualifier
12. Needed Artifacts and (artifact(s)) 13. Assumptions 14. Instructions Determine Y items based on the Count FF04_{schedule}_[D]_task FF04_{schedule}_[C]_schedule}	<u>X artifact(s)</u> FF05_{schedule_logic} <u>e following.</u> sk_ID items and, if identified, with the ule_type = FC	FF data elements FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[K]_EV FF04_{schedule}_[K]_EV FF04_{schedule}_[U]_AF FF05_{schedule_logic}_[FF05_{schedule_logic}_[sk_ID k_type ′_method _date C]_schedule_type	qualifier sch. type
12. Needed Artifacts and (artifact(s)) F04_{schedule} 13. Assumptions 14. Instructions Determine Y items based on the Count FF04_{schedule}_[D]_tass FF04_{schedule}_[C]_schedule} FF04_{schedule}_[E]_task_ty	<u>X artifact(s)</u> FF05_{schedule_logic} <u>e following.</u> sk_ID items and, if identified, with the ule_type = FC ype = A or M	FF data elements FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[K]_EV FF04_{schedule}_[M]_AS FF04_{schedule}_[U]_AF FF05_{schedule_logic}_[FF05_{schedule_logic}_[sk_ID k_type '_method _date _date C]_schedule_type E]_predecessor_ID	qualifier sch. type task type
12. Needed Artifacts and Y artifact(s) FF04_{schedule} 13. Assumptions 14. Instructions Determine Y items based on the Count FF04_{schedule}_[D]_tast FF04_{schedule}_[C]_schedule FF04_{schedule}_[E]_task_ty	<u>X artifact(s)</u> FF05_{schedule_logic} <u>e following.</u> sk_ID items and, if identified, with the ule_type = FC	FF data elements FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[K]_EV FF04_{schedule}_[M]_AS FF04_{schedule}_[U]_AF FF05_{schedule_logic}_[FF05_{schedule_logic}_[sk_ID k_type '_method _date _date C]_schedule_type E]_predecessor_ID	qualifier sch. type
12. Needed Artifacts and Y artifact(s) FF04_{schedule} 13. Assumptions 14. Instructions Determine Y items based on the Count FF04_{schedule}_[D]_tast FF04_{schedule}_[C]_schedule FF04_{schedule}_[E]_task_ty IF FF04_{schedule}_[E]_task_OR IF FF04_{schedule}_[E]_task IF FF04_{schedule}_[E]_task	<u>X artifact(s)</u> FF05_{schedule_logic} sk_ID items and, if identified, with the ule_type = FC ype = A or M <_type = M THEN FF04_{schedule}_ <_type <> M THEN FF04_{schedule}	FF data elements FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[K]_EV FF04_{schedule}_[T]_AS FF04_{schedule}_[U]_AF FF05_{schedule_logic}_[FF05_{schedule_logic}_[efollowing characteristics. [U]_AF_date = null AND FF04	sk_ID k_type '_method _date _date C]_schedule_type E]_predecessor_ID	qualifier sch. type task type incomplete
12. Needed Artifacts and Y artifact(s) FF04_{schedule} 13. Assumptions 14. Instructions Determine Y items based on the Count FF04_{schedule}_[D]_tast • FF04_{schedule}_[C]_schedule} • FF04_{schedule}_[E]_task_ty • IF FF04_{schedule}_[E]_task_ty • IF FF04_{schedule}_[E]_task_ty	<u>X artifact(s)</u> FF05_{schedule_logic} sk_ID items and, if identified, with the ule_type = FC ype = A or M <_type = M THEN FF04_{schedule}_ <_type <> M THEN FF04_{schedule}	FF data elements FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[K]_EV FF04_{schedule}_[T]_AS FF04_{schedule}_[U]_AF FF05_{schedule_logic}_[FF05_{schedule_logic}_[efollowing characteristics. [U]_AF_date = null AND FF04	sk_ID k_type '_method _date _date C]_schedule_type E]_predecessor_ID	qualifier sch. type task type incomplete
12. Needed Artifacts and Y artifact(s) FF04_{schedule} 13. Assumptions 14. Instructions Determine Y items based on the Count FF04_{schedule}_[D]_tast • FF04_{schedule}_[E]_task_ty • IF FF04_{schedule}_[E]_task_ty • IF FF04_{schedule}_[E]_task • OR IF FF04_{schedule}_[E]_task • FF04_{schedule}_[E]_task • FF04_{schedule}_[E]_task • FF04_{schedule}_[E]_task • FF04_{schedule}_[E]_task • FF04_{schedule}_[K]_EV_modele • FF04_{schedule}_[K]_EV_modele • FF04_{schedule}_[K]_EV_modele	<u>X artifact(s)</u> FF05_{schedule_logic} sk_ID items and, if identified, with the ule_type = FC ype = A or M s_type = M THEN FF04_{schedule} (_type <> M THEN FF04_{schedule}	FF data elements FF04_{schedule}_[C]_scl FF04_{schedule}_[D]_tas FF04_{schedule}_[E]_tas FF04_{schedule}_[K]_EV FF04_{schedule}_[T]_AS FF04_{schedule_logic}_[FF05_{schedule_logic}_[FF05_{schedule_logic}_[FF05_{schedule_logic}_[U]_AF_date = null AND FF04 _[U]_AF_date = null	sk_ID k_type '_method date C]_schedule_type E]_predecessor_ID 4_{schedule}_[T]_AS_date = null	qualifier sch. type task type incomplete

FF05_{schedule_logic}_[C]_schedule_type = FC

V01.01 Updated through 2019-03-13. Minor corrections.

V01.00 Updated for release. All.

Count flagged items based on the following operation(s). • FF05_{schedule_logic}_[E]_predecessor_ID >15

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "... The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

2019-03-13

2019-01-31

16. Revision Block						
rev. no.	description of change and sections affected	date prepared	prepared by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30			
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.07.05 to 06.07.06.	2020-02-10	PM-30			
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30			

PM-30

PM-30

approved by

Melvin Frank

Melvin Frank

Melvin Frank

Melvin Frank

Melvin Frank

date approved

2022-01-21

2020-02-10

2019-07-31

2019-03-14

2019-01-31

qualifier

operation

1. Process Category	2. Metric ID (new,	old) 3. Method	4. Frequency
В		07) (66) automated/manual	initially & semi-annually to align with horizo planning increments
5. Attribute			
Critical Path and Float			
6. Metric Intent			
		rs a logical sequence of work i.e., desigr the finish dates of the project.	n, construction, test, commission, etc. The
7. Metric Short Descripti	on		
BL IMS longest path not reaso	nable		1
8. Metric			
X = Number of activities on t work i.e., design, construction		IMS, where the longest path activity o	does not follow a logical sequence of
Y = Number of activities on t	he longest path in the BL	IMS.	
9. Max. Threshold	10. Max. Toleranc	e 11. Weight	
0		2.7	
12. Needed Artifacts and	Data Elements		
Y artifact(s)	<u>X artifact(s)</u> xer BL	<u>FF data elements</u> FF04_{schedule}_[C]_sch	
FF04_{schedule}		FF04_{schedule}_[D]_task FF04_{schedule}_[AB]_is_	
FF04_{schedule}	cal is the longest, continuou	FF04_{schedule}_[AB]_is_ s (critical) path.	
FF04_{schedule}	cal is the longest, continuou	FF04_{schedule}_[AB]_is_ s (critical) path.	
FF04_{schedule} 13. Assumptions FF04_{schedule}_[AB]_is_critic Changes in float >20 work day	cal is the longest, continuou s indicate work moved forw	FF04_{schedule}_[AB]_is_ s (critical) path.	
FF04_{schedule} 13. Assumptions FF04_{schedule}_[AB]_is_critic Changes in float >20 work day 14. Instructions Determine Y items based on th Count FF04_{schedule}_[D]_ta	cal is the longest, continuou s indicate work moved forw <u>ne following.</u> ask_ID items and, if identific	FF04_{schedule}_[AB]_is_ s (critical) path.	_critical Y qualifier
FF04_{schedule} 13. Assumptions FF04_{schedule}_[AB]_is_critic Changes in float >20 work day 14. Instructions Determine Y items based on th Count FF04_{schedule}_[D]_ta • FF04_{schedule}_[C]_schedule}	cal is the longest, continuou s indicate work moved forw <u>ne following.</u> ask_ID items and, if identifie dule_type = BL	FF04_{schedule}_[AB]_is_ s (critical) path. ard or backward.	_critical
FF04_{schedule} 13. Assumptions FF04_{schedule}_[AB]_is_critic Changes in float >20 work day 14. Instructions Determine Y items based on th Count FF04_{schedule}_[D]_ta • FF04_{schedule}_[AB]_is_c	cal is the longest, continuou s indicate work moved forw <u>ne following.</u> ask_ID items and, if identifie dule_type = BL ritical = yes	FF04_{schedule}_[AB]_is_ s (critical) path. ard or backward.	_critical v qualifier sch. type
FF04_{schedule} 13. Assumptions FF04_{schedule}_[AB]_is_critic Changes in float >20 work day 14. Instructions Determine Y items based on th Count FF04_{schedule}_[D]_ta • FF04_{schedule}_[AB]_is_con Determine X items, a subset on Determine X items a subset on De	cal is the longest, continuou s indicate work moved forw <u>ne following.</u> ask_ID items and, if identific dule_type = BL ritical = yes <u>f Y, based on the following.</u>	FF04_{schedule}_[AB]_is_ s (critical) path. ard or backward.	_critical Y qualifier sch. type other 2
FF04_{schedule} 13. Assumptions FF04_{schedule}_[AB]_is_critic Changes in float >20 work day 14. Instructions Determine Y items based on th Count FF04_{schedule}_[D]_ta • FF04_{schedule}_[C]_sched • FF04_{schedule}_[AB]_is_c Determine X items, a subset of Manually count flagged items b	cal is the longest, continuou s indicate work moved forw <u>he following.</u> ask_ID items and, if identifie dule_type = BL ritical = yes <u>f Y, based on the following.</u> pased on the following oper	FF04_{schedule}_[AB]_is_ s (critical) path. ard or backward.	_critical Y qualifier sch. type other 2 X qualifier

15. Reference(s)

Page 12, Typical Attribute(s): "...The critical path is comprised of the longest sequence of tasks driving project completion."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.07.08 to 06.07.07.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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DOE EVMS Metric Specification						
1. Process Category	2. Metric ID (new,	old) 3. Met	hod	4. Frequenc	y	
В	B.07.10 (06.07	.08) (67) automa	ted/manual	monthly or when complian participate IPT		
5. Attribute						
Critical Path and Float						
6. Metric Intent						
This metric determines wheth longest path is the longest dis				, construction, test, com	mission, etc. The	
7. Metric Short Descript	lion					
FC IMS longest path not reas	onable				I	
8. Metric						
X = Number of activities on work i.e., design, construct			jest path activity d	oes not follow a logica	al sequence of	
Y = Number of activities on	the longest path in the FC	IMS.				
9. Max. Threshold	10. Max. Toleranc	e 11. We	eight			
0		2.7				
12. Needed Artifacts an	d Data Elements					
<u>Y artifact(s)</u>	X artifact(s)	FF data	elements			
FF04_{schedule}	xer FC	FF04_{	schedule}_[C]_sche schedule}_[D]_task_ schedule}_[AB]_is_o	_ID		
13. Assumptions						
FF04_{schedule}_[AB]_is_crit Changes in float >20 work da						
14. Instructions						
Determine Y items based on	the following.				Y	
Count FF04_{schedule}_[D]_		ed, with the following	characteristics.		qualifier	
 FF04_{schedule}_[C]_sche FF04_{schedule}_[AD] is 					sch. type other 2	
 FF04_{schedule}_[AB]_is_ 					X	
Determine X items, a subset Manually count flagged items					x qualifier	
 The longest path activity de 	0 1	()	an construction te	st commission etc	operation	
Determine if X or X/Y exceed			.g., concaddion, to			
15. Reference(s) Page 12, Typical Attribute(s):	" The critical path is compr	ised of the longest or	auence of tasks driv			
		loca of the longest se	Addition of tasks un			
16. Revision Block	and sections affected	date propared	nrangrad by	date approved	approved by	
rev. no. description of change V04.00 Updated for release.	-	date prepared 2022-01-21	prepared by PM-30	date approved 2022-01-21	approved by Melvin Frank	
V03.00 Updated for release.	-	2022-01-21	DM 30	2022-01-21	Molvin Frank	

	opulled for foreacer of a later shangeer	2022 01 21		2022 01 21	
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.07.07 to 06.07.08.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

			-	
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency
В	B.07.11	(06.07.09) (68)	automated/manual verification	monthly
5. Attribute				
Critical Path and Float				
6. Metric Intent				
This metric confirms that BL IN project's remaining duration.	/IS total float values	are reasonable. T	his metric is designated for any activ	ity with a total float >= 10% of the
7. Metric Short Descripti	on			
BL IMS total float not reasonal	ble			
8. Metric				
X = Number of incomplete di date to the planned complete		the BL IMS, whe	re total float >= 10% of the numbe	r of work days from the CPP stat
Y = Number of incomplete di	iscrete activities in	the BL IMS.		
9. Max. Threshold	10. Max. To	lerance	11. Weight	
10.0%			2.7	
12. Needed Artifacts and	l Data Elements			
<u>Y artifact(s)</u>	X artifact(s)		FF data elements	
FF04_{schedule}	xer BL		FF04_{schedule}_[B]_CPP_statu	
			FF04_{schedule}_[C]_schedule_t FF04 {schedule} [D] task ID	уре
			FF04_{schedule}_[E]_task_type	
			FF04_{schedule}_[K]_EV_metho	d
			FF04_{schedule}_[L]_ES_date FF04 {schedule} [M] EF date	
			FF04_{schedule}_[T]_AS_date	
			FF04_{schedule}_[U]_AF_date	
			FF04_{schedule}_[AA]_total_floa FF04_{schedule}_[AH]_justification	
13. Assumptions				
251 work days in a FY (365 ca	lendar days - week	ends - 11 federal h	olidays)	
14. Instructions				

14. Instructions	
Determine Y items based on the following.	Y
Count FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics.	qualifier
 FF04_{schedule}_[C]_schedule_type = BL 	sch. type
 FF04_{schedule}_[E]_task_type = A or M 	task type
 IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = FC 	incomplete
IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null OR	
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = BL	
IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[L]_ES_date OR	
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date • FF04_{schedule}_[K]_EV_method <> A or J or K or NA	EVT
Determine X items, a subset of Y, based on the following.	x
Identify FF04_{schedule}_[D]_task_ID and, if identified, with the following characteristics.	qualifier
• FF04 {schedule} [C] schedule type = BL	sch. type
Count flagged items based on the following operation(s).	qualifier
• FF04_{schedule}_[AA]_total_float <= (FF04_{schedule}_[B]_CPP_status_date - (earliest FF04_{schedule}_[M]_EF_date where FF04_{schedule}_[E]_task_type = SM)) * (number of work days per FY)/365 * 10%	operation
Conduct the following manual operation(s).	manual
 FF04_{schedule}_[AH]_justification_narrative for high float is null or unsubstantiated. 	operation
Determine if X or X/X exceeds the threshold	

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "...The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

16. Rev	16. Revision Block								
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by				
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank				
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank				
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank				
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank				
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank				

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
B	B.07.12	(06.07.10) (69)	automated/manual verification	monthly	
5. Attribute		,,,,,			
Critical Path and Float					
6. Metric Intent					
	MS total float value	es are reasonable. 1	his metric is designated for any activi	ity with a total float >= 10%	% of the
7. Metric Short Descripti	on				
FC IMS total float not reasonal	ble				
8. Metric					
X = Number of incomplete di date to the estimated comple		in the FC IMS, whe	ere total float >= 10% of the number	of work days from the C	CPP statu
Y = Number of incomplete di	iscrete activities	in the FC IMS.			
9. Max. Threshold	10. Max. T	olerance	11. Weight		
10.0%			2.7		
12. Needed Artifacts and	l Data Element	S			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> xer FC		FF data elements FF04_{schedule}_[B]_CPP_status FF04_{schedule}_[C]_schedule_ty FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[K]_EV_method FF04_{schedule}_[M]_EF_date FF04_{schedule}_[U]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[AA]_total_float FF04_{schedule}_[AH]_justificatio	/pe	
13. Assumptions					
251 work days in a FY (365 ca	lendar days - wee	kends - 11 federal ł	nolidays)		
14. Instructions					
Determine Y items based on th Count FF04_{schedule}_[D]_ta • FF04_{schedule}_[C]_sched • FF04_{schedule}_[E]_task_ • IF FF04_{schedule}_[E]_tas OR IF FF04_{schedule}_[E]_tas • FF04_{schedule}_[K]_EV_n	ask_ID items and, dule_type = FC type = A or M kk_type = M THEN sk_type <> M THE	FF04_{schedule}_[N FF04_{schedule <u>}</u>	U]_AF_date = null AND FF04_{schedu	ule}_[T]_AS_date = null	Y qualifier sch. type task type incomplete
Determine X items, a subset o					x
Identify FF04_{schedule}_[D]		-	owing characteristics.		qualifier
 FF04_{schedule}_[C]_schedule 			-		sch. type
Count flagged items based on	the following oper	ation(s).			qualifier

FF04_{schedule}_[AA]_total_float <= (FF04_{schedule}_[B]_CPP_status_date - (earliest FF04_{schedule}_[M]_EF_date where FF04_{schedule}_[E]_task_type = SM)) * (number of work days per FY)/365 * 10%
 Conduct the following manual operation(s).

FF04_{schedule}_[AH]_justification_narrative for high float is null or unsubstantiated.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "...The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

B B,07.13 (06.07.11) (70) automated monthly 5. Attribute						Sams of M
S. Attribute S. Attribute Critical Path and Float S. Metric Intent This metric confirms the total float values for all project schedule activities. This metric confirms the total float values for all project schedule activities. 7. Metric Short Description S. Metric 8. Metric S. Metric X = Numbor of incomplete activities in the BL IMS. S. Metric 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 2.7 12. Needed Artifacts and Data Elements FF04 (schedule) [B] CPP status data FF04 (schedule) [C] cshedule to the proper status data FF04 (schedule) FF04 (schedule) [D] task. ID FF04 (schedule) [D] task. ID FF04 (schedule) ID (FF04 (schedule) [D] task. ID FF04 (schedule) [D] task. ID FF04 (schedule) ID (FF04 (schedule) [D] task. ID FF04 (schedule) [D] task. ID FF04 (schedule) ID (FF04 (schedule) [D] task. ID FF04 (schedule) [D] task. ID FF04 (schedule) ID (FF04 (schedule) [D] task. ID FF04 (schedule) [D] task. ID FF04 (schedule) ID (FF04 (schedule) [D] task. ID FF04 (schedule) [D] task. ID FF04 (schedule) ID (FF04 (schedule) [D] task. ID FF04 (schedule) [D] task. ID Scourt FF04 (schedule)	1. Process Category	2. Metric	D (new, old)	3. Method	4. Frequency	
Critical Path and Float 6. Metric Intent This metric confirms the total float values for all project schedule activities. 7. Metric Short Description 2. Metric Short Description 8. Metric X. Number of incomplete activities in the BL IMS, with negative I float. 7. Number of incomplete activities in the BL IMS, with negative I float. 7. Number of incomplete activities in the BL IMS. 9. Max. Threshold 10. Max. Tolerance 11. Weight 7. Number of Incomplete activities in the BL IMS. 9. Max. Threshold 10. Max. Tolerance 11. Weight 7. Number of Incomplete activities in the BL IMS. 9. Max. Threshold 10. Max. Tolerance 11. Weight 7. Number of Incomplete activities in the BL IMS. 9. Max. Threshold 10. Max. Tolerance 11. Weight 7. Number of Incomplete activities in the BL IMS. 9. Max. Threshold 10. Max. Tolerance 12. Number of Incomplete activities in the BL IMS. 9. Max. Threshold 10. Max. Tolerance 12. Number of Incomplete activities in the BL IMS. 9. Max. Threshold 10. Max. Tolerance 12. Metrical State Sta	В	B.07.13	(06.07.11) (70)	automated	monthly	
Substrate Data base with the solut float values for all project schedule activities. Image: Substrate Data Sub	5. Attribute					
This metric confirms the total float values for all project schedule activities. I <t< td=""><td>Critical Path and Float</td><td></td><td></td><td></td><td></td><td></td></t<>	Critical Path and Float					
7. Metric Short Description ************************************	6. Metric Intent					
BL IMS with negative total float **** 8. Metric **** X = Number of incomplete activities in the BL IMS, with negative total float. ***** Y = Number of incomplete activities in the BL IMS. 11. Weight ***** 9. Max. Threshold 10. Max. Tolerance 11. Weight ****** 9. Max. Threshold 10. Max. Tolerance 11. Weight ************************************	This metric confirms the total fl	oat values for all	project schedule act	ivities.		
B. Metric X = Number of incomplete activities in the BL IMS, with negative total float. Y = Number of incomplete activities in the BL IMS. 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 2.7 12. Needed Artifacts and Data Elements Yartifact(s) FF04 (schedule) [B] CPP status_date FF04 (schedule) FF04 (schedule) [D] task. Joint (Schedule) FF04 (schedule) FF04 (schedule) [D] task. Joint (Schedule) FF04 (schedule) FF04 (schedule) <	7. Metric Short Description	on				
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Y = Number of incomplete activities in the BL IMS. 11. Weight Image: Status of the St	8. Metric					
9. Max. Threshold 10. Max. Tolerance 11. Weight 0 2.7 12. Needed Artifacts and Data Elements Ef data elements Y artifact(s) FF04.[schedule].[B] CPP_status_date FF04.[schedule].[C]_schedule].[D]_task.[DB FF04.[schedule].[C]_schedule].[D]_task.[Dp FF04.[schedule].[C]_schedule].[D]_task.[Dp FF04.[schedule].[D]_task.[Dp FF04.[schedule].[D]_task.[D] terms and, if identified, with the following characteristics. Yatthere Count FF04.[schedule].[D]_task.[D] terms and, if identified, with the following characteristics. Yatthere Count FF04.[schedule].[D]_task.[D] terms and, if identified, with the following characteristics. Yatthere Count FF04.[schedule].[D]_task.[D] terms and, if identified, with the following characteristics. Yatthere Count FF04.[schedule].[D]_task.[D] terms and, if identified, with the following characteristics. Yatthere Count FF04.[schedule].[D]_task.[D] terms and, if identified, with the following characteristics. Yatthere I: FF04.[schedule].[D]_task.[D] terms and, if identified, with the following characteristics. Yatthere I: FF04.[schedule].[D]_task.[D] terms and, if identified, with the following characteristics. Yatthere I: FF04.[schedule].[D]_task.[D] terms and, if identified, with the following characteristics. Yatthere I: FF04.	X = Number of incomplete ac	tivities in the Bl	IMS, with negative	e total float.		
0 2.7 12. Needed Artifacts and Data Elements Yarifact(s) X artifact(s) FF04_(schedule) FF	Y = Number of incomplete ac	tivities in the Bl	IMS.			
12. Needed Artifacts and Data Elements Yartifact(s) X artifact(s) EF data elements FF04_(schedule) FF04_(schedule) BCPP_status_date FF04_(schedule) Disk FF04_(schedule) Disk Lask FF04_(schedule) Disk Disk FF04_(schedule) Disk Lask Lask <t< td=""><td>9. Max. Threshold</td><td>10. Max. 1</td><td>olerance</td><td>11. Weight</td><td></td><td></td></t<>	9. Max. Threshold	10. Max. 1	olerance	11. Weight		
Y artifact(s) X artifact(s) FF data elements FF04_(schedule) FF04_(schedule) FF04_(schedule)_[D]_cask_ID FF04_(schedule)_[D]_task_ID FF04_(schedule)_[D]_task_ID FF04_(schedule)_[D]_task_ID FF04_(schedule)_[D]_task_ID FF04_(schedule)_[D]_task_ID FF04_(schedule)_[D]_task_ID FF04_(schedule)_[D]_task_ID FF04_(schedule)_[D]_task_ID This is a BL only metric. FF04_(schedule)_[AA]_total_float Assumptions View Based on the following. Count FF04_(schedule)_[D]_task_ID Items and, if identified, with the following characteristics. • FF04_(schedule)_[C]_schedule_type = BL ************************************	0			2.7		
FF04_(schedule) FF04_(schedule) FF04_(schedule) Constrained on the schedule) FF04_(schedule) Constrained on the schedule) Schedule) Constrained on the schedule)	12. Needed Artifacts and	Data Element	s			
This is a BL only metric. 14. Instructions Determine Y items based on the following. Count FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics. • FF04_{schedule}_[C]_schedule_type = BL • IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = FC IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null OR IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = BL IF FF04_{schedule}_[D]_task_type IF FF04_{schedule}_[C]_schedule_type = BL IF FF04_{schedule}_[E]_task_type IF FF04_{schedule}_[E]_task_type R FF04_{schedule}_[E]_task_type N THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date	<u>Y artifact(s)</u> FF04_{schedule}		dule}	FF04_{schedule}_[B]_C FF04_{schedule}_[C]_s FF04_{schedule}_[D]_tz FF04_{schedule}_[E]_tz FF04_{schedule}_[L]_E FF04_{schedule}_[M]_E FF04_{schedule}_[T]_A FF04_{schedule}_[U]_A	ichedule_type ask_ID ask_type S_date EF_date .S_date .S_date	
14. Instructions v Determine Y items based on the following. v Count FF04_{schedule}_[D]_task_D items and, if identified, with the following characteristics. qualifier count FF04_{schedule}_[C]_task_D items and, if identified, with the following characteristics. qualifier count FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC sch. type IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null necemplete IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC incomplete IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_top = N THEN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = BL IF FF04_{schedule}_[D]_task_top = N THEN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_{schedule}_{c} type = BL IF FF04_{schedule}_[D]_task_top = N THEN FF04_{schedule}_{schedule}_{c} type = FC FF04_{schedule}_{schedule}_{c} type = N THEN FF04_{schedule}_{c} type = FC IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_{c} type = FC FF04_{schedule}_{c} type = FC IF FF04_{schedule}_{c} type = N THEN FF04_{schedule}_{c} type = FC Schedule_{c} type = FC IF FF04_{schedule}_{c} type = N	13. Assumptions					
Determine Y items based on the following. v Count FF04_{schedule}_[D]_task_D items and, if identified, with the following characteristics. uuiller • FF04_{schedule}_[C]_schedule_type = BL sch. type • IF FF04_{schedule}_[D]_task_D IS IN FF04_{schedule}_[C]_schedule_type = FC incomplete FROM FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null or OR IF FF04_{schedule}_[D]_task_D IS NOT IN FF04_{schedule}_[C]_schedule_type = FC incomplete FROM FF04_{schedule}_[D]_task_type <> M THEN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_type <> M THEN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_D IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_task_type = M THEN FF04_{schedule}_[C]_schedule_type = FC IF FF04_{schedule}_[D]_task_type = M THEN FF04_{schedule}_[D]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR	This is a BL only metric.					
Count FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics. qualifer • FF04_{schedule}_[C]_schedule_type = BL sch. type • IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC incomplete FROM FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null or OR IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_ipe = M THEN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_TOP = BL FF04_{schedule}_[C]_schedule_TOP = BL IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR	14. Instructions					
Identify FF04_{schedule}_[D]_task_ID and, if identified, with the following characteristics. qualifier Count flagged items based on the following operation(s). qualifier • FF04_{schedule}_[AA]_total_float < 0	Count FF04_{schedule}_[D]_ta • FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C]_tas OR IF FF04_{schedule}_[E]_tas IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C] IF FF04_{schedule}_[C]_tas FF04_{sche	isk_ID items and, lule_type = BL k_ID IS IN FF04_]_schedule_type ik_type = M THEI k_type <> M THE k_ID IS NOT IN F]_schedule_type sk_type = M THE status_date < FF	{schedule}_[C]_sche = FC N FF04_{schedule}_ EN FF04_{schedule}_ F04_{schedule}_[C] = BL N FF04_{schedule}_[L]_E	edule_type = FC [U]_AF_date = null AND FF _[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < FF S_date	04_{schedule}_[M]_EF_date OR	qualifier sch. type
Determine if X or X/Y exceeds the threshold.	Identify FF04_{schedule}_[D]_t Count flagged items based on	task_ID and, if ide the following ope	entified, with the follo	wing characteristics.		qualifier qualifier
	Determine if X or X/Y exceeds	the threshold.				

15. Reference(s)

Page 12, Typical Attribute(s): "Significant interdependences should be defined at a consistent level of detail to support development of a critical path. The minimum level linkage is at the work package and planning package level. The schedule should be designed for effective integrated program management purposes and contain a critical path for the entire contractual period of performance."

Page 12, Typical Attribute(s): "...The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

				Utris
1. Process Category	2. Metric ID (ne	w, old) 3. Method	4. Frequency	
В	B.08.01 (06	.08.01) (71) automated/manu	al verification monthly	
5. Attribute				
Schedule Margin (SM)				
6. Metric Intent				
			ropriately planned. In this way, SM design ntingency activity (if any) preceding the C	
7. Metric Short Descript	tion			
BL IMS no SM or not linked t	o DOE			а
8. Metric				
X = Number of SM activities	s in the BL IMS, is 0 or is	not linked to CD-4 or DOE cont	tingency.	
N/A				
9. Max. Threshold	10. Max. Tolera	nce 11. Weight		
0		1.0		
12. Needed Artifacts an	d Data Elements			
	<u>X artifact(s)</u> FF04_{schedule}	FF04_{schedule} FF04_{schedule}	_ _[C]_schedule_type _[D]_task_ID	
13. Assumptions				
14. Instructions				
Determine X items, a subset	of Y. based on the followi	na.		x
		, with the following characteristics		qualifier
• Fro4_{schedule}_[C]_schedule_type - DL			sch. type	
 FF04_{schedule}_LEJ_task_type = SM 			other 1	
Count flagged items based on the following operation(s).			qualitier	
 FF04_{schedule}_[E]_task Conduct the following manual 				manual
0		is not related to CD-4 or DOE con	tingency	operation
Determine if X or X/X exceed			5.7	

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

See PASEG, Section 5.12, page 75: "Program teams should follow the following guidelines when using Schedule Margin:

Schedule Margin should be represented in both the Baseline and Forecast schedules

Schedule Margin tasks should be restricted to an appropriate number of occurrences based on managing risk to increase schedule accuracy

• Schedule Margin duration should be the Program Manager's assessment of the amount of remaining schedule risk/uncertainty to the subsequent event

• Schedule Margin duration should be justifiable and traceable to the program's risk management system

• Schedule Margin tasks should be clearly and consistently identifiable

• Schedule Margin should be placed as the last task/activity before key contractual events, significant logical integration/test milestones, end item deliverables, or contract completion"

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

				Shine
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency	
В	B.08.02 (06.08.02) (72) automated/manual verification	monthly	
5. Attribute				
Schedule Margin (SM)				
6. Metric Intent				
		lule is logically and appropriately plan ilestone or the DOE contingency activ	,	
7. Metric Short Descript	tion			
FC IMS no SM or not linked t	o DOE			а
8. Metric				
X = Number of SM activities	s in the FC IMS, is 0 or is not linke	d to CD-4 or DOE contingency.		
N/A				
9. Max. Threshold	10. Max. Tolerance	11. Weight		
0		1.0		
12. Needed Artifacts an	d Data Elements			
	<u>X artifact(s)</u> FF04_{schedule}	<u>FF data elements</u> FF04_{schedule}_[C]_schedule FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[I]_task_desc		
13. Assumptions				
14. Instructions				
Determine X items, a subset	of Y. based on the following.			x
	_task_ID and, if identified, with the f	ollowing characteristics.		qualifier
 FF04_{schedule}_[C]_sche 				sch. type
rru4_{schedule}_[c]_task_type - Sivi			other 1	
Count hagged terms based on the following operation(s).			qualifier operation	
 FF04_{schedule}_[E]_task Conduct the following manua 				manual
•	_description or successor is not relat	ed to CD-4 or DOE contingency		operation
Determine if V or VM evened	a tha thus a hald			

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

See PASEG, Section 5.12, page 75: "Program teams should follow the following guidelines when using Schedule Margin:

Schedule Margin should be represented in both the Baseline and Forecast schedules

Schedule Margin tasks should be restricted to an appropriate number of occurrences based on managing risk to increase schedule accuracy

• Schedule Margin duration should be the Program Manager's assessment of the amount of remaining schedule risk/uncertainty to the subsequent event

· Schedule Margin duration should be justifiable and traceable to the program's risk management system

• Schedule Margin tasks should be clearly and consistently identifiable

• Schedule Margin should be placed as the last task/activity before key contractual events, significant logical integration/test milestones, end item deliverables, or contract completion"

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric II) (new, old)	3. Method	4. Frequency
В	B.08.03	(06.08.05) (73)	automated/manual verification	monthly
5. Attribute				
Schedule Margin (SM)				
6. Metric Intent				
This metric ensures the SM dur	ration is commens	urate with schedule	e risk and if the SM duration < 10% of	the project's remaining duratior
7. Metric Short Description	on			
FC IMS SM remaining duration	low			a
8. Metric				
X = Number of SM activities in Also, Verify SM remaining duration		-	duration < 10% of remaining durat dule risk.	ion.
Y = Number of SM activities in	n the FC IMS.			
9. Max. Threshold	10. Max. To	olerance	11. Weight	
0			1.0	
12. Needed Artifacts and	Data Elements	5		
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{schedu schedule risk	ule} documentation	FF data elements FF04_{schedule}_[B]_CPP_status FF04_{schedule}_[C]_schedule_ty FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[L]_ES_date FF04_{schedule}_[X]_rem_duratio	, pe
13. Assumptions				
There may be more than one S SM is after the to-go work.	M task type.			
14. Instructions				
Determine Y items based on the Count FF04_{schedule}_[D]_ta • FF04_{schedule}_[C]_sched • FF04_{schedule}_[E]_task_t	sk_ID items and, i ule_type = FC	f identified, with the	following characteristics.	Y qualifier sch. type other 1
<u>Determine X items, a subset of</u> Identify FF04_{schedule}_[D]_t Count flagged items based on t	Y, based on the for ask_ID and, if ider the following opera	ntified, with the follo ation(s).	wing characteristics. L]_ES_date - FF04_{schedule}_[B]_(x qualifier qualifier cPP_status_date) operation manual

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

See PASEG, Section 5.12, page 75: "Program teams should follow the following guidelines when using Schedule Margin:

• Schedule Margin should be represented in both the Baseline and Forecast schedules

• Schedule Margin tasks should be restricted to an appropriate number of occurrences based on managing risk to increase schedule accuracy

Schedule Margin duration should be the Program Manager's assessment of the amount of remaining schedule risk/uncertainty to the subsequent event

• Schedule Margin duration should be justifiable and traceable to the program's risk management system

• Schedule Margin tasks should be clearly and consistently identifiable

• Schedule Margin should be placed as the last task/activity before key contractual events, significant logical integration/test milestones, end item deliverables, or contract completion"

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric	D (new, old)	3. Method	4. Frequency
В	B.09.01	(07.01.01) (74)	automated/manual	monthly
5. Attribute				

5. Attribute

Progress Measures and Indicators

6. Metric Intent

This metric confirms that meaningful and objective completion criteria align with the technical performance goals used for measuring the progress of milestones, events, and other indicators. The identification of objective interim performance measures within CAs. The BL IMS should be directly traceable to technical performance goals and should include all the elements associated with the design, construction, and delivery of the product and IMP. This metric identifies incomplete critical key milestones/deliverables and control point dates (i.e., delivery dates) that are not represented in the BL IMS.

7. Metric Short Description

BL IMS missing key activities

8. Metric

X = Number of incomplete key milestones, deliverables, and control point dates in the contract work scope/federal directed scope documents/IMP, not in the BL IMS.

Y = Number of incomplete key milestones, deliverables, and control point dates in the contract work scope/federal directed scope documents/IMP.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		2.1
12. Needed Artifacts and Da	ata Elements	
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> scope documents (e.g., contract, PEP, PMP, conceptual design report,)	FF data elements FF04_{schedule}_[B]_CPP_status_date FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date
13. Assumptions		

List of schedule tasks are X values.

14. Instructions

Determine Y items based on the following.
Count FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics.
 FF04_{schedule}_[C]_schedule_type = BL
 FF04_{schedule}_[E]_task_type = M
• IF FF04 {schedule} [D] task ID IS IN FF04 {schedule} [C] schedule type = FC

IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC
 FROM FF04_{schedule}_[C]_schedule_type = FC
 IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null
 OR
 IF FF04_{schedule}_[D]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null
 IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC
 FROM FF04_{schedule}_[C]_schedule_type = BL
 IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR
 FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[L]_ES_date
 OR
 IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date
 FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date
 FF04_{schedule}_[M]_EF_date

Determine X items, a subset of Y, based on the following.

Manually count flagged items based on the following operation(s).

 Determine if the contract work scope/federal directed scope documents/IMP milestones/deliverables are in the schedule and dates align.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 13, Intent: "Identify objective interim performance measures within control accounts (or lower-level tasks/activities) to enable accurate performance assessment each month."

Page 13, Typical Attribute(s): "Interim milestones and lower-tier tasks serve as indicators of progress against which the control account manager monitors progress."

x

qualifier sch. type PASEG, page 28: "An IMS with an IMP-driven Architecture incorporates the IMP events, accomplishments, and criteria into its framework. Add detailed tasks to depict the steps required to satisfy criterion. An IMP-based IMS focuses attention on completing the tasks satisfying the entrance and exit criteria for the events and assessing progress towards completing those events..."

PASEG, page 30: "...Ensure that the IMS tasks are traceable to the IMP events that they support (i.e. tie tasks that supports CDR to CDR Criteria).

Ensure that each lowest level architectural element is supported by a least one IMS task and that each IMS task supports a lowest level architectural element..."

6. Rev	6. Revision Block						
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by		
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank		
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 07.01.02 to 07.01.01.	2020-02-10	PM-30	2020-02-10	Melvin Frank		
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank		
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank		
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank		

	DOL		the opecine	
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
В	B.10.01	(08.02.01) (75)	manual	monthly
5. Attribute				
Time-Phased Performance M	easurement Base	line (PMB)		
6. Metric Intent				
indicative of the actual way the metric assesses the adequacy	e work is planned y of the BL IMS ne	and accomplished at twork logic by simula	t the level of detail to supp ating a schedule slip using	tion) and identifies interdependencies that are port project longest path development. This g a select number of discrete activities within the ion verifies any changes made to the end
7. Metric Short Descript	ion			
BL IMS push test				
8. Metric				
X = BL IMS push test result	is not consistent	with change.		
N/A				
9. Max. Threshold	10. Max. 1	Tolerance	11. Weight	
0			2.5	
12. Needed Artifacts and	d Data Elemen	ts		
	<u>X artifact(s)</u> xer BL			
13. Assumptions				
14. Instructions				
 Conduct the following manual Push Test Constrain CD-4 activity (c Choose a discrete activit longest path. Add 500 day duration to t Reschedule the project. Verify the results. The total float of the state 	or activity at end o y within the currer the selected activit	nt 6 month window th ty.	at is discrete and betwee	manual operation
b. The change to the end rc. LOE did not become a6. Select another activity in	milestone which sl longest path activi	hould be negative by ity.		

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 14, Intent: "The PMB represents the time-phased scope, schedule, and associated budget through the end of the contract."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 7 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE	EVMS Me	tric Specific	cation	
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
В	B.10.02	(08.02.02) (76)	manual	monthly	
5. Attribute					
Time-Phased Performance Mea	asurement Basel	line (PMB)			
6. Metric Intent					
indicative of the actual way the metric assesses the adequacy	work is planned of the BL IMS ne fies that the prior	and accomplished at twork logic by simula r longest path remain	the level of detail to sup ting a schedule adjustme	tion) and identifies interdependenci port project longest path developme ent by changing the constraint date the simulation verifies that LOE is r	ent. This to the current
7. Metric Short Description	on				
BL IMS pull test					
8. Metric					
X = BL IMS pull test result is	not consistent v	with change.			
N/A					
9. Max. Threshold	10. Max. 1	Folerance	11. Weight		
0			2.5		
12. Needed Artifacts and	Data Element	ts			
	<u>X artifact(s)</u> xer BL				
13. Assumptions					
14. Instructions					
 Conduct the following manual of Pull Test #1 Select the last discrete act Change the constraint date Reschedule the project. Verify the results. No discrete activity shoul The prior longest path sh Pull Test #2 Select a future LOE activit Reschedule the project. Verify results. No eschedule the project. 	ivity in the sched e to the current s d have 0 or posit ould be still the lo y. he current status	tatus date. ive float. ongest path. date.		ity.	manual operation
Determine if X or X/Y exceeds	the threehold		-		

Page 14, Intent: "The PMB represents the time-phased scope, schedule, and associated budget through the end of the contract."

16. Rev	ision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

					(Barnes
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
С	C.01.01	(08.01.01) (77)	manual	monthly	
5. Attribute					
Scope, Schedule and Budget A	lignment				
6. Metric Intent					
This test confirms that scope, s the UB value, and the dollarized		et align. The metric	c identifies any difference be	etween the IPMR F1 PMB value	e, excluding
7. Metric Short Description	on				
PMB, IPMR F1 <> dollarized R	AM				а
8. Metric					
X = Number of CA WBSs in th IPMR F2 DB.	ne RAM, where R/	AM CA CAM <> WI	3S index CAM or RAM CA	DB <> IPMR F1 DB or RAM O	BS DB <>
Y = Number of CA WBSs in th	ne RAM.				
9. Max. Threshold	10. Max. To	lerance	11. Weight		
0	1000		2.2		
12. Needed Artifacts and	Data Elements				
<u>Y artifact(s)</u> FF01_{WBS} FF08_{IPMR_F1} FF09 {IPMR_F2}	<u>X artifact(s)</u> RAM		<u>FF data elements</u> FF01_{WBS}_[I]_CAM FF08_{IPMR_F1}_[J]_BA FF09 {IPMR_F2} [J]_BA		
13. Assumptions					
14. Instructions					
Determine Y items based on th	e following.				Y
Count RAM CA,RAM CA CAM,	RAM CA DB,RAM	OBS DB items and	d, if identified, with the follow	ving characteristics.	qualifier
<u>Determine X items, a subset of</u>					x
Identify FF01_{WBS}_[I]_CAM, characteristics.			MR_F2}_[J]_BAC and, if ide	entified, with the following	qualifier
Count flagged items based on t	0 1	tion(s).			qualifier
 RAM CA CAM <> FF01_{WE OR RAM CA DB <> FF08_{IPMF 					operation
OR RAM OBS DB <>FF09_{IPM	IR_F2}_[J]_BAC				

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 14, Intent: "The assignment of budgets to scheduled segments of work produces a plan against which actual performance can be compared. This is called the Performance Measurement Baseline (PMB)."

Page 17, Typical Attribute(s): "The PMB reflects the budget value for the work scope in all control accounts, summary level planning packages, and undistributed budget."

16. Revision Block						
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by	
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank	
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank	
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank	
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank	
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank	

DOE EVMS Metric Specification						
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency			
С	C.01.02 (08.01.02) (78)	automated	monthly			
5. Attribute						
Scope, Schedule and Budget	Alignment					
6. Metric Intent						
	be, schedule, and budget align. The m not match the BAC labor hour values i		incomplete WPs/PPs where BAC labor hour			
7. Metric Short Descript	ion					
DB labor units, EVMS cost too	ol <> BL IMS		а			
8. Metric						
X = Number of incomplete V	VP and PP WBSs (only EOC labor) i	n the EVMS cost tool, who	ere DB units <> BL IMS labor DB units.			
Y = Number of incomplete V	VP and PP WBSs (only EOC labor) i	n the EVMS cost tool.				
9. Max. Threshold	10. Max. Tolerance	11. Weight				
5.0%	1	2.2				
12. Needed Artifacts and	d Data Elements					
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF06_{schedule_resources} FF04_{schedule} FF03_{cost}	FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS FF03_{cost}_[A]_DB FF03_{cost}_[L]_BCWF FF03_{cost}_[O]_DB FF04_{schedule}_[C]_s FF04_{schedule}_[D]_t FF06_{schedule_resou FF06_{schedule_resou FF06_{schedule_resou FF06_{schedule_resou FF06_{schedule_resou FF06_{schedule_resou FF06_{schedule_resou FF06_{schedule_resou	Pc schedule_type ask_ID WBS rces}_[C]_schedule_type rces}_[E]_task_ID rces}_[H]_EOC			
13. Assumptions						
14. Instructions						

Determine Y items based on the following.	Y
Count FF03_{cost}_[D]_WBS by FF03_{cost}_[E]_EOC items and, if identified, with the following characteristics.	qualifier
FF03 {cost} [G] WBS type = WP or PP	WBS type
 FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB 	incomplete
 FF03_{cost}_[E]_EOC = labor 	EOC
Determine X items, a subset of Y, based on the following.	x
Identify FF04_{schedule}_[G]_WBS by EOC,(FF06_{schedule_resources}_[E]_task_ID,FF04_{schedule}_[D]_task_ID) and, if identified, with the following characteristics.	qualifier
 FF04_{schedule}_[C]_schedule_type = BL, FF06_{schedule_resources}_[C]_schedule_type = BL 	sch. type
 FF06_{schedule_resources}_[H]_EOC = labor 	other 1
Count flagged items based on the following operation(s).	qualifier
 FF03_{cost}_[O]_DB <> FF06_{schedule_resources}_[I]_budget_units 	operation
Determine if X or X/Y exceeds the threshold	

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 16, Intent: "Since control account budgets and schedules also establish the constraints required for baseline control, care must be exercised in the establishment of control account budgets to ensure a viable scope/effort correlation and to prevent inadvertent front-loading of the budget baseline."

Page 17, Typical Attribute(s): "The PMB reflects the work scope, time-phased consistent with the integrated master schedule."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 08.01.03 to 08.01.02.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification					
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency		
С	C.01.03 (08.01.03) (79)	automated/manual verification	monthly		
5. Attribute					
Scope, Schedule and Budget	Alignment				
6. Metric Intent					
	be, schedule, and budget align. The me PMB; 2) the PMB value plus the MR va t's negotiated cost.	,	•		
7. Metric Short Descript	ion				
DB, UB, PMB, MR, CBB, NC	C, and AUW not aligned			а	
8. Metric					
X = 1. PMB + MR <> CBB or 2. NCC + AUW <> CBB.					
N/A					
9. Max. Threshold	10. Max. Tolerance	11. Weight			
0	1000	2.2			
12. Needed Artifacts an	d Data Elements				
	<u>X artifact(s)</u> FF07_{IPMR_header} FF08_{IPMR_F1} IPMR F1	FF data elements FF07_{IPMR_header}_[N]_F1_5_ FF07_{IPMR_header}_[O]_F1_5_ FF07_{IPMR_header}_[Y]_F1_6_ FF07_{IPMR_header}_[AC]_F1_8_ FF07_{IPMR_header}_[AC]_F1_8_ FF08_{IPMR_F1}_[J]_BAC(total) FF08 {IPMR_F1} [J]_RAC FF08 {IPMR_F1} [J]_RAC	_c_AUW c_CBB 3_d_UB_bgt		
13. Assumptions					
Factor OTB for metric X.2.					
14. Instructions	of Y, based on the following.			x	
<> FF07_{IPMR_header}_[OR		N]_rpg_BAC	der}_[AF]_F1_8_f_MR_bgt	X qualifier operation	
 14. Instructions Determine X items, a subset of Sum flagged items based on FF08_{IPMR_F1}_U]_BAC <> FF07_{IPMR_header}_U OR 	the following operation(s). ;(total) + FF07_{IPMR_header}_[AC]_F Y]_F1_6_c_CBB - FF08_{IPMR_F1}_[_F1_5_b_tot_neg_cost + FF07_{IPMR_ F1_6_c_CBB	N]_rpg_BAC	der}_[AF]_F1_8_f_MR_bgt	qualifier	

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 14, Intent: "The Contract Budget Base (CBB) represents the value of all authorized work. This includes the negotiated contract cost (NCC) plus the estimated cost of any authorized unpriced work (AUW). This CBB value forms the basis for program budgeting."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 08.01.04 to 08.01.03.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE	EVMS Me	tric Specificatio	n	
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
С	C.02.01	(08.04.01) (80)	automated	monthly	
5. Attribute					
Summary Level Planning Packa	iges (SLPP)				
6. Metric Intent					
This metric confirms that SLPPs SLPPs and whether they have s			ntify scope, schedule, and budget.	This metric assesses the e	xistence of
7. Metric Short Descriptio	n				
SLPP without scope, schedule,	or budget				а
8. Metric					
 X = Number of SLPP WBS act 1. Scope is not defined, 2. Schedule (start or finish da 3. Budget (DB) is not defined 	tes) is not defir	ned in the BL IMS, c	r		
Y = Number of SLPP WBS act	ivities in the Bl	LIMS.			
9. Max. Threshold	10. Max. 1	Tolerance	11. Weight		
0			0.6		
12. Needed Artifacts and	Data Elemen	ts			
<u>Y artifact(s)</u> FF01_{WBS} FF04_{schedule} FF06_{schedule_resources}	<u>X artifact(s)</u> FF03_{cost} FF04_{sche FF13_{WAE	} :dule}	FF data elements FF01_{WBS}_[C]_WBS FF01_{WBS}_[G]_WBS_type FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF04_{schedule}_[C]_schedule FF04_{schedule}_[C]_schedule FF04_{schedule}_[C]_WBS FF04_{schedule}_[M]_EF_date FF04_{schedule}_IM]_EF_date FF06_{schedule}_resources}_[H FF13_{WAD}_[C]_WBS FF13_{WAD}_[L]_scope	⊵_type	
13. Assumptions					
14. Instructions					
Determine Y items based on the	e following.				Y
Count FF01_{WBS}_[C]_WBS it		ntified, with the follow	ing characteristics.		qualifier
 FF01_{WBS}_[G]_WBS_type FF04_{ache duta}_{C} 					WBS type sch. type
 FF04_{schedule}_[C]_schedule FF04_{schedule}_[E]_task_ty 		or 784 or SM or S			task type
					x
Determine X items, a subset of Identify FF03_{cost}_[D]_WBS,F characteristics.		-	/AD}_[C]_WBS and, if identified, wi	ith the following	qualifier
Count flagged items based on the	ne following ope	eration(s).			qualifier
• EE12 (M/AD) [1] acono = nu					operation

• FF13_{WAD}_[L]_scope = null OR FF04_{schedule}_[L]_ES_date = null OR FF04_{schedule}_[M]_EF_date = null OR FF03_{cost}_[K]_DB = 0/null

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 14, Intent: "...Budget for far-term efforts may be held in higher level accounts until an appropriate time for allocation at the control account level."

Page 15, Intent: "...budget distribution is typically accomplished through the establishment of time-phased resources within control accounts. For future effort that cannot practically be identified to a control account, it is permissible to establish a temporary summary level planning"

16. Revision Block

operation

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Section 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

2. Metric ID (new, old) 3. Method 4. Frequency **1. Process Category** С (09.01.01) (81) C.03.01 automated/manual verification quarterly 5. Attribute Work Authorization Documents (WAD) 6. Metric Intent This metric confirms that WADs identify scope of work, budget by EOC, and POP. This metric ensures that each WAD (at the CA at a minimum) has scope articulated in the WBS dictionary, a dollarized budget value by EOC listed with the cost system, and a specified POP consistent with the BL IMS. 7. Metric Short Description

WAD without scope, schedule, or budget by EOC

8. Metric

X = Number of incomplete (based on the BL IMS) CA WADs, where

- 1. Scope is not defined in the WAD or not consistent with the WBS dictionary,
- 2. POP (start or finish dates) is not defined in the WAD or consistent with the BL IMS, or
- 3. Budget (DB) by EOC is not defined in the WAD or consistent with the EVMS cost tool.

Y = Number of incomplete (based on the BL IMS) CA WADs.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0	1000	1.7
12. Needed Artifacts and Da	ata Elements	
<u>Y artifact(s)</u> FF13_{WAD} FF04_{schedule} FF06_{schedule_resources}	<u>X artifact(s)</u> FF03_{cost} FF04_{schedule} WADs FF22_{WBS_dictionary} FF01_{WBS}	FF data elements FF01_{WBS}_[C]_WBS FF01_{WBS}_[J]_WBS_narrative FF03_{cost}_[D]_WBS FF03_{cost}_[D]_WBS FF04_{schedule}_[B]_CPP_status_date FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[C]_task_ID FF04_{schedule}_[C]_task_ID FF04_{schedule}_[C]_task_ID FF04_{schedule}_[C]_task_ID FF04_{schedule}_[C]_task_ID FF04_{schedule}_[C]_task_ID FF04_{schedule}_[C]_task_ID FF04_{schedule}_[C]_task_ID FF04_{schedule}_[C]_task_ID FF04_{schedule}_[C]_WBS FF04_{schedule}_[I]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[C]_WBS FF13_{WAD}_[C]_WBS FF13_{WAD}_[J]_POP_start_date FF13_{WAD}_[L]_scope

13. Assumptions

Must be at the CA level. Start and finish dates compared against WAD.

14. Instructions

Determine Y items based on the following.

Count FF13_{WAD}_[C]_WBS items and, if identified, with the following characteristics.	qualifier
FF04_{schedule}_[C]_schedule_type = BL	sch. type
FF04_{schedule}_[E]_task_type <> SVT or ZBA or SM or S	task type
IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = FC	incomplete
IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_da OR	ite = null
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null	
IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC	
FROM FF04_{schedule}_[C]_schedule_type = BL IF FF04 {schedule} [E] task type = M THEN FF04 {schedule} [B] CPP status date < FF04 {schedule} [M] EF date	ate OR
FF04 {schedule} [B] CPP status date < FF04 {schedule} [L] ES date	
OR A CALL A CALL	
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_c	date
Determine X items, a subset of Y, based on the following.	x
dentify FF13_{WAD}_[C]_WBS,FF03_{cost}_[D]_WBS,FF04_{schedule}_[G]_WBS,FF01_{WBS}_[C]_WBS and, if identifi	ied, qualifier

with the following characteristics.

FF04_{schedule}_[C]_schedule_type = BL

sch. type

qualifier Count flagged items based on the following operation(s). operation • FF13 {WAD}_[L]_scope <> FF01_{WBS}_[J]_WBS_narrative OR FF13 {WAD} [J] POP start date >= FF04 {schedule} [L] ES date OR FF13_{WAD}_[K]_POP_finish_date <= FF04_{schedule}_[M]_EF_date OR FF13_{WAD}_[H]_budget_dollars = 0/null OR FF13_{WAD}_[H]_budget_dollar <> FF03_{cost}_[K]_DB Conduct the following manual operation(s). manua 1. Scope is not defined in the WAD or not consistent with the WBS dictionary, operation • 2. POP (start or finish dates) is not defined in the WAD or consistent with the BL IMS, or 3. Budget (DB) by EOC is not defined in the WAD or consistent with the EVMS cost tool.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 18, Intent: "Through a work authorization process, establish budgets for all authorized work to be done by the responsible organizational elements. No work should begin before the effort is authorized by an initial work authorization. As budgets and schedules are established and approved for all the authorized work at the control account level, the work authorization is updated as required. The work authorization at the control account level is where the approved work scope, period of performance, and budget are integrated. The control accounts identify the appropriate cost elements (labor, subcontract, material, and other direct costs). It is important to include all resources required to accomplish the work scope."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Section 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1 Process Cotorer	2 Motrie		3. Method	A Exemuence	
1. Process Category	2. Metric	ID (new, old) (09.02.01) (82)	automated	4. Frequency monthly	
	C.04.01	(09.02.01) (82)	automateu	montany	
5. Attribute	<i>.</i>				
Nork Authorization Prior to P	erformance				
6. Metric Intent					
	tric identifies the n	umber of CAs where	work started prior to the la	or to the execution of the work scop atest approved WAD and the count	
7. Metric Short Descript	ion				
CA started prior WAD approv	ed				а
8. Metric					
X = Number of CA WBSs in 1. Actual start in the FC IMS 2. Actual start in the FC IMS 3. Actual cost in the EVMS of 4. Actual cost in the EVMS of	S < WAD approval S < POP start date cost tool < WAD a	date, , approval date, or			
Y = Number of CAs in the W	/BS dictionary.				
9. Max. Threshold	10. Max. 1	Folerance	11. Weight		
0			1.2		
12. Needed Artifacts an	d Data Element	ts			
<u>Y artifact(s)</u> FF01_{WBS}	<u>X artifact(s)</u> FF13_{WAD FF03_{cost} FF04_{sche)}	FF data elements FF01_{WBS}_[C]_WBS FF01_{WBS}_[G]_WBS FF03_{cost}_[B]_CPP_ FF03_{cost}_[D]_WBS FF03_{cost}_[M]_inc_A FF04_{schedule}_[C]_ FF04_{schedule}_[G]_ FF04_{schedule}_[C]_ FF04_{schedule}_[C]_ FF04_{schedule}_[C]_ FF13_{WAD}_[C]_WBS FF13_{WAD}_[F]_auth FF13_{WAD}_[J]_POP	S_type status_date ACWP_dollars schedule_type ask_type WBS AS_date S_ _date	
13. Assumptions					
Limited to CAs.					
14. Instructions					
Determine Y items based on t	the following.				Y
Count FF01_WBS_[C]_WBS		fied, with the followir	ng characteristics.		qualifier
 FF01_{WBS}_[G]_WBS_ty 	pe = CA				WBS type
Determine X items, a subset of Identify FF13_{WAD}_[C]_WE		-	lule}_[G]_WBS and, if iden	tified, with the following	X qualifier

characteristics. • FF04_{schedule}_[C]_schedule_type = FC

• FF04_{schedule}_[E]_task_type <> SVT or ZBA or S

Count flagged items based on the following operation(s).

• FF04_{schedule}_[T]_AS_date < FF13_{WAD}_[F]_auth_date

OR FF04_{schedule}_[T]_AS_date < FF13_{WAD}_[J]_POP_start_date OR FF03_{cost}_[B]_CPP_status_date where earliest FF03_{cost}_[M]_inc_ACWP_dollars <> 0/null < FF13_{WAD}_[F]_auth_date OR FF03_{cost}_[B]_CPP_status_date where earliest FF03_{cost}_[M]_inc_ACWP_dollars <> 0/null < FF13_{WAD}_[J]_POP_start_date] [period]

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 18, Intent: "No work should begin before the effort is authorized by an initial work authorization. As budgets and schedules are established and approved for all the authorized work at the control account level, the work authorization is updated as required."

16. Revision Block

sch. type

other 2

qualifier

operation

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric	Specification
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					ALCONS OF MALE
1. Process Category	2. Metric II) (new, old)	3. Method	4. Frequency	
С	C.05.01	(09.03.01) (83)	automated	monthly	
5. Attribute					
Budgeting by Elements of Cos	t (EOC)				
6. Metric Intent					
This metric identifies the count	of incomplete SLP	PS/CAs/WPs/PPs b	y EOC with DB <= 0.		
7. Metric Short Description	on				
CA/WP/PP/SLPP by EOC DB	<= 0				a A
8. Metric					
X = Number of incomplete W	/P and PP WBSs b	oy EOC in the EVM	S cost tool, where DB <= 0.		
Y = Number of incomplete W	/P and PP WBSs b	oy EOC in the EVM	S cost tool.		
9. Max. Threshold	10. Max. To	olerance	11. Weight		
0			1.6		
12. Needed Artifacts and	Data Elements	5			
<u>Y artifact(s)</u> FF03_{cost} FF01_{WBS}	<u>X artifact(s)</u> FF03_{cost}		FF data elements FF01_{WBS}_[C]_WBS FF01_{WBS}_[G]_WBS_type FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc		
13. Assumptions					
14. Instructions					
Determine Y items based on th Count FF03_{cost}_[D]_WBS the characteristics. • FF01_{WBS}_[G]_WBS_typ • FF03_{cost}_[L]_BCWPc <	by FF03_{cost}_[E]		_[C]_WBS items and, if identified, v	with the following	Y qualifier WBS type incomplete
Determine X items, a subset or Identify FF03_{cost}_[D]_WBS Count flagged items based on • FF03_{cost}_[K]_DB <= 0 or	by FF03_{cost}_[E the following opera	E]_EOC and, if ident	ified, with the following characteris	tics.	X qualifier qualifier operation
Determine if X or X/Y exceeds	the threshold.				
15 Boforonoo(s)					

Page 18, Intent: "The control accounts identify the appropriate cost elements (labor, subcontract, material, and other direct costs). It is important to include all resources required to accomplish the work scope."

16. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by		
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank		
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank		
V02.00	Updated for release. Sections 10, 12, and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank		
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank		
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank		

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
c	C.05.02	(09.03.02) (84)	automated/manual	initially & semi-annually to align with planning increments	n horizo
5. Attribute					
Budgeting by Elements of Cos	t (EOC)				
6. Metric Intent					
This metric confirms that CA b dollar value by EOC.	udgets are segreg	ated and planned b	y EOC. This metric identifies the	count of incomplete CAs without	t a BAC
7. Metric Short Descripti	on				
CA by EOC not reasonable				I	
8. Metric					
X = Number of CA WBSs by	EOC in the EVMS	cost tool, not reas	sonably planned to execute its	scope.	
Y = Number of CA WBSs by	EOC in the EVMS	cost tool.			
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0			1.6		
12. Needed Artifacts and	l Data Element	S			
Y artifact(s) FF03_{cost} FF01_{WBS}	<u>X artifact(s)</u> schedule and	d cost documents	FF data elements FF01_{WBS}_[C]_WBS FF01_{WBS}_[D]_title FF01_{WBS}_[G]_WBS_type FF01_{WBS}_[J]_WBS_narra FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[K]_DB		
13. Assumptions					
14. Instructions					
Determine Y items based on th Count FF03_{cost}_[D]_WBS th characteristics. • FF01_{WBS}_[G]_WBS_typ • FF01_{WBS}_[D]_title <listin • FF01_{WBS}_[J]_WBS_nar • FF03_{cost}_[K]_DB <listing< td=""><td>by FF03_{cost}_[E be = CA ng> rative <listing></listing></td><td>_EOC,FF01_{WBS</td><td>[C]_WBS items and, if identifie</td><td>with the following w ot</td><td>r uualifier VBS type other 1 other 2 other 3</td></listing<></listin 	by FF03_{cost}_[E be = CA ng> rative <listing></listing>	_EOC,FF01_{WBS	[C]_WBS items and, if identifie	with the following w ot	r uualifier VBS type other 1 other 2 other 3
Determine X items, a subset o Manually count flagged items I • CA WBSs by EOC in the EV Determine if X or X/Y exceeds	f Y, based on the based on the follow /MS cost tool are i	wing operation(s).	ned to execute its scope.		(Jualifier Operation

15. Reference(s)

Page 18, Intent: "The control accounts identify the appropriate cost elements (labor, subcontract, material, and other direct costs). It is important to include all resources required to accomplish the work scope."

16.	Revision	Block	

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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1. Process Category	2. Metric	D (new, old)	3. Method	4. Frequency
С	C.06.01	(10.01.01) (85)	automated	monthly
5. Attribute				
Work Package Planning, Distinguishability, and Duration				

6. Metric Intent

This metric confirms that discrete WPs are relatively short in duration and they have objective interim measures or milestones, such as points of technical achievement to minimize the subjectivity of the in-process evaluation of performance assessment. This metric ensures that incomplete discrete WPs do not have a BL duration > 132 work days.

7. Metric Short Description

discrete WP > 132 work days

8. Metric

X = Number of incomplete discrete WP WBSs (excludes SVTs) in the BL IMS, with a duration (finish date - start date) > 132 work days.

Y = Number of incomplete discrete WP WBSs (excludes SVTs) in the BL IMS.

9. Max. Threshold	10. Max. Tolerance	11. Weight
5.0%		1.6
12. Needed Artifacts and Da	ata Elements	
<u>Y artifact(s)</u> FF04_{schedule} FF01_{WBS}	<u>X artifact(s)</u> FF04_{schedule}	FF data elements FF01_{WBS}_[G]_WBS_type FF03_{cost}_[G]_WBS_type FF04_{schedule}_[B]_CPP_status_date FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[G]_WBS FF04_{schedule}_[K]_EV_method FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[T]_AS_date FF04_{schedule}_[T]_AS_date

13. Assumptions

Schedule tool calendar is 5 day work week.

14. Instructions

Determine Y items based on the following.	Y
Count FF04_{schedule}_[G]_WBS items and, if identified, with the following characteristics.	qualifier
 FF01_{WBS}_[G]_WBS_type = WP 	WBS type
 FF04_{schedule}_[C]_schedule_type = BL 	sch. type
 FF04_{schedule}_[E]_task_type <> SVT 	task type
 IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = FC IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null OR 	incomplete
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = BL IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[L]_ES_date OR	
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date • FF04_{schedule}_[K]_EV_method <> A or J or K or NA	EVT
Determine X items, a subset of Y, based on the following.	х
Identify FF04_{schedule}_[G]_WBS and, if identified, with the following characteristics.	qualifier
Count flagged items based on the following operation(s).	qualifier
 FF04_{schedule}_[M]_EF_date (earliest) - FF04_{schedule}_[L]_ES_date (latest) > 132 work days 	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 20, Intent: "When work packages are relatively short, little or no assessment of work-in-progress is required. As work package length increases, work-in-progress measurement becomes more subjective, unless objective techniques, such as discrete milestones with preassigned budget values or completion percentages, subdivide them. A key feature, from the standpoint of evaluating accomplishment, is

the desirability of having work packages that incorporate frequent, objective indicators of progress."

16. Rev	ision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

					Diris
1. Process Category	2. Metric ID (new,	old)	3. Method	4. Frequency	
C	C.07.01 (10.02.0	02) (86)	automated/manual	initially & semi-annually to align v planning increments	vith horizo
5. Attribute					
Measurable Units and Budget Su	bstantiation				
6. Metric Intent					
	identifies the count of oc	currences w	n detail is subdivided to the extent p here the CAM cannot substantiate easonable and achievable.	5 5	
7. Metric Short Description	l				
PP activities unsubstantiated					I
8. Metric					
X = Number of PP WBS activiti	es in the BL IMS, where	CAM canno	ot substantiate reasonable work,	schedule, or budget.	
Y = Number of PP WBS activitie	es in the BL IMS.				
9. Max. Threshold	10. Max. Tolerance	e	11. Weight		
0			1.5		
12. Needed Artifacts and D	ata Elements				
Y artifact(s)	X artifact(s)		FF data elements		
FF04_{schedule} FF03_{cost} FF01_{WBS}	schedule and cost doci scope documents (e.g. PEP, PMP, conceptual report,)	., contract,	FF01_{WBS}_[C]_WBS FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF04_{schedule}_[C]_schedule_ty FF04_{schedule}_[G]_WBS	ре	
13. Assumptions					
14. Instructions					
Determine Y items based on the	following.				Y
		items and,	if identified, with the following chara	cteristics.	qualifier
 FF01_{WBS}_[G]_WBS_type = 					WBS type sch. type
 FF04_{schedule}_[C]_schedul 	= ; ;				X
Determine X items, a subset of Y Manually count flagged items bas		ation(s)			qualifier
	• ·	. ,	are not reasonable and achievable		operation
Determine if X or X/Y exceeds the	0				

15. Reference(s)

Page 20, Management Value: "The master schedule may have more detail below the work package/planning package level to support the development of a realistic critical path, as applicable."

Page 21, Intent: "Time-phased budgets assigned to planning packages must be supported by a specified scope of work and this relationship must be maintained when detailed planning of the effort occurs."

Page 21, Typical Attribute(s): "Planning package plans must reflect the manner in which the work is to be performed."

16. Rev	ision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE EVMS	Metric Specifica	ation	
1. Process Category	2. Metric ID (new, old) 3. Method	4. Frequency	
С	C.07.02 (10.07.01)	(87) automated	monthly	
5. Attribute				
Measurable Units and Budget	Substantiation			
6. Metric Intent				
This metric ensures PPs do no	ot have an actual start date, AC	NP, or BCWP.		
7. Metric Short Descript	on			
PP with actual start, ACWP, o	r BCWP			a A
8. Metric				
X = Number of PP WBSs in t	he FC IMS, with an actual star	t date, ACWP, or BCWP.		
Y = Number of PP WBSs in t	he FC IMS and EVMS cost too	I.		
9. Max. Threshold	10. Max. Tolerance	11. Weight		
0		1.5		
12. Needed Artifacts and	I Data Elements			
<u>Y artifact(s)</u> FF04_{schedule} FF03_{cost}	<u>X artifact(s)</u> FF04_{schedule} FF03_{cost}	FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_ FF03_{cost}_[L]_BCWP FF03_{cost}_[M]_ACWF FF04_{schedule}_[C]_s FF04_{schedule}_[D]_ta FF04_{schedule}_[E]_ta FF04_{schedule}_[G]_V FF04_{schedule}_[T]_A FF04_{schedule}_[U]_A	c Pc chedule_type ask_ID ask_type VBS S_date	
13. Assumptions				
14. Instructions				
Determine Y items based on t Count FF04_{schedule}_[D]_ta following characteristics. • FF03_{cost}_[G]_WBS_typ • FF04_{schedule}_[C]_sche	ask_ID,(FF04_{schedule}_[G]_W e = PP	/BS,FF03_{cost}_[D]_WBS) items	s and, if identified, with the	Y qualifier WBS type sch. type
Count flagged items based on • FF04_{schedule}_[T]_AS_d OR	WBS and, if identified, with the the following operation(s). ate <> null k_type = M THEN FF04_{sched			X qualifier qualifier operation

FF03_{cost}_[M]_ACWPc <> 0 OR FF03_{cost}_[L]_BCWPc <> 0

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 21, Intent: "Work for a given control account that cannot be planned in detail at the outset will be divided into larger segments and placed into planning packages within the control account. Planning packages are aggregates of future tasks and budgets, beyond those planned in detail that will be divided into work packages at the earliest practical time."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
С	C.07.04	(10.08.01) (88)	automated/manual	initially & semi-annually to align with horizon planning increments
5. Attribute				

Measurable Units and Budget Substantiation

6. Metric Intent

This metric confirms that WP and PP budgets are substantiated.

7. Metric Short Description

WBS BOE unsubstantiated

8. Metric

X = Number of incomplete WP and PP WBSs on the longest path (sample size) in the BL IMS, where the CAM cannot substantiate BOE including if the budget is adequate to perform the work when the BL IMS was established.

Y = Number of incomplete WP and PP WBSs on the longest path (sample size) in the BL IMS.	
Sample size of 5 WP and 3 PP WBSs.	

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		1.5
12. Needed Artifacts ar	nd Data Elements	
<u>Y artifact(s)</u> FF04_{schedule} FF03_{cost}	<u>X artifact(s)</u> BOE data presented by CAM	FF data elements FF01_{cost}_[G]_WBS_type FF04_{schedule}_[B]_CPP_status_date FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[G]_WBS FF04_{schedule}_[C]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[AB] is critical

13. Assumptions

14. Instructions	
Determine Y items based on the following.	Y
Count FF04_{schedule}_[G]_WBS items and, if identified, with the following characteristics.	qualifier
 FF01_{WBS}_[G]_WBS_type = WP or PP 	WBS type
 FF04_{schedule}_[C]_schedule_type = BL 	sch. type
 IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC 	incomplete
FROM FF04_{schedule}_[C]_schedule_type = FC	
IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null	
OR	
IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null	
IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC	
FROM FF04_{schedule} [C]_schedule_type = BL	
IF FF04 {schedule} [E] task type = M THEN FF04 {schedule} [B] CPP status date < FF04 {schedule} [M] EF date OR	
FF04 {schedule} [B] CPP status date < FF04 {schedule} [L] ES date	
OR	
IF FF04 {schedule} [E] task type <> M THEN FF04 {schedule} [B] CPP status date < FF04 {schedule} [M] EF date	
 FF04_{schedule} [AB]_is_critical = yes 	other 2
Determine X items, a subset of Y, based on the following.	x
Manually count flagged items based on the following operation(s).	qualifier
	operation
 CAM cannot substantiate BOE including if the budget is adequate to perform the work when the BL IMS was established for WP and PPs in the BL IMS (sample size 5 WPs and 3 PPs) that are incomplete and on the longest path. 	S

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 20, Intent: "Each work package will have the following characteristics:

It has a budget or assigned value expressed in terms of dollars, labor hours, or measurable units that is substantiated by supporting project plans."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric	Specification
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1. Process Category 2. Metric ID (new, old) 3. Method 4. Frequency C C.07.05 (11.01.01) (89) automated quarterly 5. Attribute					
S. Attribute Measurable Units and Budget Substantiation 6. Metric Intent This metric confirms that the sum of all WP budgets plus PP budgets and the total CA budget value. This metric identifies the count of differences for incomplete CAs between the sum of WP budgets plus PP budgets and the WAD budget value for the CAs. 7. Metric Short Description CA DB <> WAD budget * 8. Metric X = Number of incomplete CA WBSs in the EVMS cost tool. where EVMS cost tool DB <> WAD budget. Y = Number of incomplete CA WBSs in the EVMS cost tool. 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 1000 1.5 12. Needed Artifacts and Data Elements FF03_(cost)_[D] WBS FF03_(cost) FF13_(WAD) FF03_(cost)_[D] WBS FF03_(cost) FF13_(WAD) FF13_(cost)_[D] WBS FF13_(cost) FF13_(wAD)_[C] WBS FF13_(wAD)_[C] WBS FF13_(cost) FF13_(wAD)_[H]_budget_dollars watter 13. Assumptions * ************************************	1. Process Category	2. Metric	D (new, old)	3. Method	4. Frequency
An easurable Units and Budget Substantiation 6. Metric Intent This metric confirms that the sum of all WP budgets plus PP budgets aual the total CA budget value. This metric identifies the count of alf WP budgets plus PP budgets and the WAD budget value for the CAs. 7. Netric Short Descriptor 7. A deric Short Descriptor CA DB <> WAD budget CA DB << WAD budget CA DB < WAD budget CA DB <</ WAD budget CA DB <</th	с	C.07.05	(11.01.01) (89)	automated	quarterly
6. Metric Intent This metric confirms that the sum of all WP budgets plus PP budgets equal the total CA budget value. This metric identifies the count of differences for incomplete CAs between the sum of WP budgets plus PP budgets and the WAD budget value for the CAs. 7. Metric Short Description CA DB <> WAD budget CA DB <> WAD budget CA WBSs in the EVMS cost tool, where EVMS cost tool DB <> WAD budget. Y = Number of incomplete CA WBSs in the EVMS cost tool. 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 100 1.5 12. Needed Artifacts and Data Elements Yarifiact(s) FF03_(cost) FF13_(WAD) FF03_(cost) [G]_WBS_type FF03_(cost) [K]_DB FF03_(cost) [K]_DB FF13_(WAD)_[C]_WBS	5. Attribute				
This metric confirms that the sum of all WP budgets plus PP budgets and the WAD budget value. This metric identifies the count of differences for incomplete CAs between the sum of WP budgets plus PP budgets and the WAD budget value for the CAs. 7. Metric Short Description - CA DB <> WAD budget - 8. Metric - X = Number of incomplete CA WBSs in the EVMS cost tool. DB <> WAD budget. 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 1000 1.5 12. Needed Artifacts and Data Elements FF03 (cost). [G] WBS _type FF03 (cost). [G] WBS _type FF03 (cost) FF13 _(WAD) FF03 (cost). [G] WBS _type FF03 (cost). [G] WBS _type FF03 (cost) FF13 _(WAD) FF03 _(cost). [G] WBS _type FF13 _(WAD). [H] budget_dollars 13. Assumptions - - - 14. Instructions - - - Determine Y items based on the following. - - - - FF03 _(cost). [_] WBS _type = CA - - - - FF03 _(cost). [_] WBS _type = CA - - - - FF03 _(cost). [_] WBS _type = CA - - - - FF03 _(cost). [_] WBS _type = CA - - <	Measurable Units and Budge	t Substantiation			
differences for incomplete CAs between the sum of WP budgets plus PP budgets and the WAD budget value for the CAs. 7. Metric Short Description CA DB <> WAD budget CA DB <> WAD budget CA WBS in the EVMS cost tool, where EVMS cost tool DB <> WAD budget. Y = Number of incomplete CA WBSs in the EVMS cost tool, where EVMS cost tool DB <> WAD budget. Y = Number of incomplete CA WBSs in the EVMS cost tool. 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 100 1.5 12. Needed Artifacts and Data Elements FF03 [cost] FF03 [cos	6. Metric Intent				
CA DB <> WAD budget * 8. Metric * X = Number of incomplete CA WBS in the EVMS cost tool, where EVMS cost tool DB <> WAD budget. * Y = Number of incomplete CA WBS in the EVMS cost tool. * 9. Max. Threshold 10. Max. Tolerance 11. Weight * 0 100 1.5 * 12. Needed Artifacts and Data Elements * * Y artifact(s) FF13_(WAD) FF03_(cost)_[D]_WBS * FF03_(cost) FF13_(WAD) FF03_(cost)_[I]_WDS * Stassumptions * * * 14. Instructions * * * Determine Y items based on the following. * * * Count F03_(cost)_[D]_WBS items and, if identified, with the following characteristics. * * * FF03_(cost)_[G]_WBS_type = CA * * * * Obj_(cost)_[G]_WBS_type = CA * * * * FF03_(cost)_[L]_BCWPc < FF03_(cost)_[K]_DB					
B. Metric X = Number of incomplete CA WBSs in the EVMS cost tool, where EVMS cost tool DB <> WAD budget. Y = Number of incomplete CA WBSs in the EVMS cost tool. 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 1000 1.5 12. Needed Artifacts and Data Elements Y artifact(s) FF data elements FF03_(cost) X artifact(s) FF data elements FF03_(cost) FF13_(WAD) FF03_(cost)_[D]_WBS FF03_(cost) FF13_(WAD) FF03_(cost)_[L]_BCWPc FF13_(WAD) FF13_(WAD)_[H]_budget_dollars Y 13. Assumptions Y Y Determine Y items based on the following. Y Y Count FF03_(cost)_[D]_WBS items and, if identified, with the following characteristics. Y Y = F103_(cost)_[L]_BCWPc < FF13_(WAD)_[C]_WBS	7. Metric Short Descript	ion			
X = Number of incomplete CA WBSs in the EVMS cost tool, where EVMS cost tool DB <> WAD budget. Y = Number of incomplete CA WBSs in the EVMS cost tool. 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 1000 1.5 12. Needed Artifacts and Data Elements FF data el	CA DB <> WAD budget				a
Y = Number of incomplete CA WBSs in the EVMS cost tool. 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 1000 1.5 12. Needed Artifacts and Data Elements Ff data elements FF03_(cost) K artifact(s) FF data elements FF03_(cost) FF13_(WAD) FF03_(cost)_[D]_WBS FF03_(cost) FF03_(cost)_[I]_BCWPc FF03_(cost)_[I]_BCWPc 13. Assumptions Image: State	8. Metric				
9. Max. Threshold 010. Max. Tolerance 100011. Weight010001.512. Needed Artifacts and Data ElementsY artifact(s) FF03_(cost}X artifact(s) FF13_[WAD} FF03_(cost)_[D]_WBS FF03_(cost]_[I]_WBS_type FF03_(cost]_[I]_BCWPc FF13_[WAD]_[C]_WBS FF13_[WAD]_[C]_WBS FF13_[WAD]_[C]_WBS FF13_[WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[MBS FF13_WAD]_[C]_WBS FF13_WAD]_[C]_WBS and, if identified, with the following characteristics.VDetermine X items, a subset of Y, based on the following. Identify FF13_(WAD]_[C]_WBS and, if identified, with the following characteristics.XDetermine X items, a subset of Y, based on the following. Identify FF13_(WAD]_[C]_WBS and, if identified, with the following characteristics.XCount flagged items based on the following operation(s). • FF03_(cost)_[K]_DB <> FF13_{WAD}_H]_budget_dollarsX	X = Number of incomplete C	CA WBSs in the E	VMS cost tool, whe	ere EVMS cost tool DB <>	WAD budget.
0 1000 1.5 12. Needed Artifacts and Data Elements Y artifact(s) X artifact(s) FF data elements Y artifact(s) X artifact(s) FF data elements FF03_(cost) FF13_{WAD} FF03_{cost}_D_WBS FF03_(cost) FF03_{cost}_IG_WBS_type FF03_{cost}_IL_BCWPc FF13_{WAD} FF13_{WAD}_IC]_WBS FF13_{WAD}_IC]_WBS Its Assumptions 14. Instructions Vertications Oetermine Y items based on the following. Count FF03_{cost}_IC]_WBS type = CA Vestore • FF03_(cost)_IL_BCWPc < FF03_{cost}_IK]_DB	Y = Number of incomplete C	CA WBSs in the E	VMS cost tool.		
12. Needed Artifacts and Data Elements Y artifact(s) X artifact(s) FF data elements FF03_{cost} FF13_{WAD} FF03_{cost}_D_WBS FF03_{cost} FF03_{cost}_G_WBS_type FF03_{cost} FF03_{cost}_IK_DB FF03_{cost} FF03_{cost}_IK_DB FF03_{cost} FF03_{cost}_IK_DB FF03_{cost} FF13_{WAD}_IC]_WBS FF13_{WAD}_IC]_WBS FF13_{WAD}_IC]_WBS FF13_{WAD}_IC]_WBS FF13_{WAD}_IC]_WBS Termine Y items based on the following. V Count FF03_{cost}_ID]_WBS items and, if identified, with the following characteristics. Petermine Y items, a subset of Y, based on the following. • FF03_{cost}_IL]_BCWPc < FF03_{cost}_IK]_DB	9. Max. Threshold	10. Max. 1	olerance	11. Weight	
Y artifact(s) X artifact(s) FF data elements FF03_(cost) FF13_{WAD} FF03_(cost)_[D]_WBS FF03_(cost)_[G]_WBS_type FF03_(cost)_[I]_BCWPc FF13_{WAD}_[C]_WBS FF13_{WAD}_[I]_BUdget_dollars 13. Assumptions 14. Instructions Quitter of the following. Count FF03_(cost)_[D]_WBS items and, if identified, with the following characteristics. • FF03_(cost)_[C]_WBS_type = CA • FF03_(cost)_[L]_BCWPc < FF03_(cost)_[K]_DB	0	1000		1.5	
FF03_{cost}} FF13_{WAD} FF03_{cost} FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[L]_BCWPc FF13_{WAD}_[C]_WBS FF13_{WAD}_[H]_budget_dollars 13. Assumptions 14. Instructions v Count FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. v cost _[C]_WBS_type = CA v 	12. Needed Artifacts an	d Data Element	s		
14. Instructions Y Determine Y items based on the following. Y Count FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. qualifier • FF03_{cost}_[G]_WBS_type = CA WBS type • FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB		FF13_{WAD		FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_ FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWP FF13_{WAD}_[C]_WBS	
Determine Y items based on the following. Y Count FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. qualifier • FF03_{cost}_[G]_WBS_type = CA WBS type • FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB	13. Assumptions				
Determine Y items based on the following. Count FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. qualifier • FF03_{cost}_[G]_WBS_type = CA WBS type • FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB	14. Instructions				
Identify FF13_{WAD}_[C]_WBS and, if identified, with the following characteristics. qualifier Count flagged items based on the following operation(s). qualifier • FF03_{cost}_[K]_DB <> FF13_{WAD}_[H]_budget_dollars operation	Count FF03_{cost}_[D]_WBS • FF03_{cost}_[G]_WBS_typ	items and, if ident be = CA		ng characteristics.	qualifier WBS type
Count flagged items based on the following operation(s). qualifier • FF03_{cost}_[K]_DB <> FF13_{WAD}_[H]_budget_dollars operation	Determine X items, a subset o	of Y, based on the	following.		x
FF03_{cost}_[K]_DB <> FF13_{WAD}_[H]_budget_dollars	, _, ,_, ,_		•	characteristics.	
 FFU3_{COSI}_K_DB <> FF13_{VVAD}_[H]_budget_dollars 	••	• ·	. ,		
			laget_dollars		operator.

Page 22, Management Value: "The integrity of the performance measurement baseline requires that the budget of the control account equal the sum of its work package and planning package budgets. When the budget of the control account equals the sum of its work package and planning package budgets, it prevents duplicate recording of budgets."

Page 22, Intent: "In all cases, the value of the budget assigned to individual work packages and planning packages within the control account must sum to the total value authorized for the control account."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE	EVMS Me	etric Specific	cation	Same and
1. Process Category C	2. Metric I C.08.01	D (new, old) (10.04.01) (90)	3. Method automated	4. Frequency monthly	
5. Attribute					
Appropriate Assignment of Ea	rned Value Techn	iques (EVT)			
6. Metric Intent					
This metric confirms that a sin	gle EVT (discrete,	LOE, or apportione	d) is assigned to each inc	complete WP.	
7. Metric Short Descripti	• · ·	7 11	, 0	•	
WP with EVT LOE and non-LO					a A
8. Metric	-				
X = Number of incomplete W	/Ps in the BL IMS	(only activities) w	vith both discrete and F	VT LOF activities	
Y = Number of incomplete W					
9. Max. Threshold	10. Max. T	· • /	11. Weight		
9. max. Theshold	10. Max. 1	olerance	2.0		
		-	2.0		
12. Needed Artifacts and	X artifact(s)	5	FF data elements		
<u>Y artifact(s)</u> FF04_{schedule} FF03_{cost}	FF04_{scher	dule}	FF03_{cost}_[G]_WB3 FF04_{schedule}_[B] FF04_{schedule}_[D] FF04_{schedule}_[D] FF04_{schedule}_[G] FF04_{schedule}_[G] FF04_{schedule}_[L] FF04_{schedule}_[M] FF04_{schedule}_[T] FF04_{schedule}_[U]	_CPP_status_date _schedule_type _task_ID _task_type _WBS _EV_method _ES_date _EF_date _AS_date	
13. Assumptions					
14. Instructions					
OR IF FF04_{schedule}_[E]_ta IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[C] IF FF04_{schedule}_[E]_ta	WBS items and, if e = WP dule_type = BL type = A sk_ID IS IN FF04 C]_schedule_type sk_type = M THEN sk_type <> M THE sk_ID IS NOT IN F C]_schedule_type sk_type = M THEN	{schedule}_[C]_sche = FC I FF04_{schedule}_ :N FF04_{schedule}_ F04_{schedule}_[C] = BL N FF04_{schedule}_	edule_type = FC [U]_AF_date = null AND F _[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < F	FF04_{schedule}_[T]_AS_date = null FF04_{schedule}_[M]_EF_date OR	Y qualifier WBS type sch. type task type incomplete
FF04_{schedule}_[B]_CPP_ OR IF FF04 {schedule} [E] ta				FF04_{schedule}_[M]_EF_date	
Determine X items, a subset of					x
Identify FF04_{schedule}_[D]_	task_ID and, if ide		wing characteristics.		qualifier
• FF04_{schedule}_[C]_sche					sch. type qualifier
Count flagged items based on • (FF04_{schedule}_[K]_EV_n AND FF04_{schedule}_[K]_EV_n OR (FF04_{schedule}_[K]_EV_n AND EE04_{schedule}_[K]_EV_n	method = LOE nethod <> LOE) method = LOE				operation
FF04_{schedule}_[K]_EV_n OR (FF04_{schedule}_[K]_EV_n AND					
FF04 {schedule} [K] EV n	nethod = apportior	ned)			

FF04_{schedule}_[K]_EV_method = apportioned)

Determine if X or X/Y exceeds the threshold.

Page 21, Typical Attribute(s): "Have duration limited to a relatively short span of time, or are subdivided by discrete value milestones to facilitate the objective measurement techniques of work performed, or are LOE work packages integrated with detailed engineering, manufacturing, or other schedules."

16. Rev	16. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank			
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank			
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank			
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank			
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank			

	DOE	EVMS Me	tric Specific	ation	
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
С	C.08.02	(10.06.01) (91)	automated	monthly	
5. Attribute					
Appropriate Assignment of E	Earned Value Techni	ques (EVT)			
6. Metric Intent					
	ed to be performed a	nd progress measu		nner in which the resource budgets (he number of incomplete discrete act	
7. Metric Short Descrip	otion				
0-100 > 22 work days					а
8. Metric					
X = Number of incomplete	EVT 0-100 activitie	s in the BL IMS, wi	nere duration is > 22 wo	rk days.	
Y = Number of incomplete	EVT 0-100 activitie	s in the BL IMS.			
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0			2.0		
12. Needed Artifacts a	nd Data Element	S			
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{sched	Jule}	FF data elements FF04_{schedule}_[B]_ FF04_{schedule}_[C]_ FF04_{schedule}_[D]_ FF04_{schedule}_[E]_ FF04_{schedule}_[K]_ FF04_{schedule}_[M]_ FF04_{schedule}_[U]_ FF04_{schedule}_[U]_ FF04_{schedule}_[W]_ FF04_{schedule}_[W]_	schedule_type task_ID task_type EV_method ES_date _EF_date AS_date AF_date	
13. Assumptions					
14. Instructions					
Determine Y items based or Count FF04_{schedule}_[D] • FF04_{schedule}_[C]_sch • IF FF04_{schedule}_[D]_t FROM FF04_{schedule}_[B]_r OR IF FF04_{schedule}_[E]_ IF FF04_{schedule}_[D]_t FROM FF04_{schedule}_[D]_t FF04_{schedule}_[E]_ FF04_{schedule}_[B]_CPI OR	_task_ID items and, hedule_type = BL ask_ID IS IN FF04_{ [C]_schedule_type = task_type = M THEN task_type <> M THE ask_ID IS NOT IN F [C]_schedule_type = task_type = M THEN P_status_date < FF0	schedule}_[C]_sche = FC I FF04_{schedule}_ N FF04_{schedule}_ F04_{schedule}_[C] = BL I FF04_{schedule}_[L]_E	edule_type = FC [U]_AF_date = null AND F _[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < F S_date	F04_{schedule}_[T]_AS_date = null F04_{schedule}_[M]_EF_date OR	Y qualifier sch. type incomplete
 FF04_{schedule}_[E] FF04_{schedule}_[K]_EV 		IN FFU4_{SChedule}	_[b]_CPP_status_date <	FF04_{schedule}_[M]_EF_date	EVT
Determine X items, a subset	t of Y, based on the t	following.			x
Identify EE04 (schedule) [D	1 took ID and if ida	ntified with the felle	wing characteristics		qualifier

Identify FF04_{schedule}_[D]_task_ID and, if identified, with the following characteristics. qualifier qualifier Count flagged items based on the following operation(s). operation • FF04_{schedule}_[W]_orig_duration > 22 working days

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 20, Management Value: "Budgets, established at the work package level identifying specific resource requirements in dollars, hours, or other measurable units, provide the detail for effective execution of the baseline plan. The resources are to be time-phased the way the detail work is to be accomplished. This approach provides meaningful product-related or management-oriented events for performance measurement."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

3. Method 1. Process Category 2. Metric ID (new, old) 4. Frequency С C.08.03 (10.06.02) (92) automated/manual initially & semi-annually to align with horizon planning increments

5. Attribute

Appropriate Assignment of Earned Value Techniques (EVT)

6. Metric Intent

This metric looks to determine whether the QBD EVT used to derive the time-phased BCWS is consistent with how the work scope will be performed.

7. Metric Short Description

schedule or cost time-phased resources <> QBD time-phased resources

8. Metric

X = Number of incomplete activities with original duration > 44 work days in the BL IMS, where the time-phased resources in the BL IMS as well as the EVMS cost tool do not align with the time-phased QBD.

Y = Number of incomplete activities with original duration > 44 work days in the BL IMS.

9. Max. Threshold	10. Max. Tolerance	11. Weight							
5.0%		2.0							
12. Needed Artifacts and	12. Needed Artifacts and Data Elements								
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> QBD FF04_{schedule} FF03_{cost} schedule and cost documents	FF data elements FF04_{schedule}_[D]_task_ID FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[B]_CPP_status_date FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[K]_EV_method FF04_{schedule}_[T]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[W]_orig_duration							
13. Assumptions									
14. Instructions									
Determine Y items based on the Count FF04_{schedule}_[D]_tas	<u>e following.</u> sk_ID items and, if identified, with the	following characteristics.	Y qualifier						

		(,
•	FF04	{schedule}	[C] schedule type = BL	

-	1 04_[scileddie][0]_scileddie_type - DE	
•	IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC	incomplete
	FROM FF04_{schedule}_[C]_schedule_type = FC	
	IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null	
	OR	
	IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null	
	IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC	
	FROM FF04_{schedule}_[C]_schedule_type = BL	
	IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR	
	FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[L]_ES_date	
	OR	
	IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date	
•	FF04_{schedule}_[K]_EV_method <> A or J or K or NA	EVT
•	FF04_{schedule}_[W]_orig_duration > 44 working days	other 1
	etermine X items, a subset of Y, based on the following.	x
٨	Janually count flagged items based on the following operation(s)	qualifier

Manually count flagged items based on the following operation(s).

Time-phased resources in the BL IMS as well as the EVMS cost tool do not align with the time-phased QBD.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 20, Management Value: "Budgets, established at the work package level identifying specific resource requirements in dollars, hours, or other measurable units, provide the detail for effective execution of the baseline plan. The resources are to be time-phased the way the detail work is to be accomplished. This approach provides meaningful product-related or management-oriented events for performance measurement."

16. Revision Block

operation

sch. type

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
С	C.08.04	(10.06.03) (93)	automated/manual	initially & semi-annually to align with horizo

semi-annually to align with horizon planning increments

5. Attribute

Appropriate Assignment of Earned Value Techniques (EVT)

6. Metric Intent

This metric confirms that the WP or activity EVT where performance measurement is planned and taken are consistent with the manner in which the budgets for all elements of cost are planned and scheduled to be performed and measured. This evaluation is accomplished with objective indicators that reflect technical accomplishment in the BCWP for all discrete work consistent with progress achieved towards each of the goals of the project's key events, decision points, and milestones. This metric identifies work scope listed with an apportioned EVT in the BL IMS and cost system to determine the adequacy of apportioned EVT selection using the technical explanations provided by CAMs during discussions.

7. Metric Short Description

apportioned unsubstantiated

8. Metric

X = Number of incomplete EVT apportioned activities in the BL IMS, with inadequate justification for EVT apportioned.

Y = Number of incomplete EVT apportioned activities in the BL IMS.

		· · · · · · ·						
9. Max. Threshold	10. Max. Tolerance	11. Weight						
0		2.0						
12. Needed Artifacts and Da	ita Elements							
<u>Y artifact(s)</u> FF04_{schedule} FF01_{WBS}	<u>X artifact(s)</u> FF04_{schedule} FF03_{cost} documentation for basis of apportioned activities (identifies base and calculations)	FF data elements FF01_{WBS}_[C]_WBS FF01_{WBS}_[G]_WBS_type FF04_{schedule}_[B]_CPP_status_date FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[G]_WBS FF04_{schedule}_[G]_WBS FF04_{schedule}_[K]_EV_method FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[T]_AS_date FF04_{schedule}_[AH]_justification_narrative						
13. Assumptions								
14. Instructions								
Determine Y items based on the for Count FF04_{schedule}_[D]_task_ following characteristics.		chedule}_[G]_WBS) items and, if identified, with the	Y qualifier					
 FF01_{WBS}_[G]_WBS_type = 			WBS type					
 FF04_{schedule}_[C]_schedule 			sch. type					
 IF FF04_{schedule}_[D]_task_ID IS IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[C]_schedule_type = FC IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null OR IF FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_ID IS NOT IN FF04_{schedule}_[C]_schedule_type = FC FROM FF04_{schedule}_[D]_task_type = BL IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date OR FF04_{schedule}_[B]_CPP_status_date < FF04_{schedule}_[L]_ES_date OR 								
IF FF04_{schedule}_[E]_task_tFF04 {schedule} [K] EV meth		[B]_CPP_status_date < FF04_{schedule}_[M]_EF_date	EVT					
			x					
Determine X items, a subset of Y,		in a channachariation	qualifier					
	LID and, if identified, with the follow	ing characteristics.	sch. type					
	 FF04_{schedule}_[C]_schedule_type = BL FF04_{schedule}_[AH]_justification_narrative <listing></listing> 							
			qualifier					
	 FF04_{schedule}_[AH]_justification_narrative for apportioned effort relationships are not documented, logical, and 							

Page 20, Management Value: "Budgets, established at the work package level identifying specific resource requirements in dollars, hours, or other measurable units, provide the detail for effective execution of the baseline plan. The resources are to be time-phased the way the detail work is to be accomplished."

16. Revision Block								
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank			
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank			
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank			
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank			
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank			

DOE EVMS Metric Specification						
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency		
С	C.08.05	(10.06.04) (94)	automated	monthly		
5. Attribute						
Appropriate Assignment of Ea	rned Value Techniq	ues (EVT)				
6. Metric Intent						
	to be performed an	d progress measu		manner in which the resource budgets the number of incomplete discrete acti		
7. Metric Short Descripti	on					
50-50 > 44 work days					а	
8. Metric						
X = Number of incomplete E	VT 50-50 activities	in the BL IMS, w	nere duration is > 44 w	ork days.		
Y = Number of incomplete E	VT 50-50 activities	in the BL IMS.				
9. Max. Threshold	10. Max. To	lerance	11. Weight			
0			2.0			
12. Needed Artifacts and	l Data Elements					
<u>Y artifact(s)</u> FF04_{schedule}	<u>X artifact(s)</u> FF04_{schedu	ıle}	FF data elements FF04_{schedule}_[B] FF04_{schedule}_[C] FF04_{schedule}_[D] FF04_{schedule}_[E] FF04_{schedule}_[K] FF04_{schedule}_[M] FF04_{schedule}_[T] FF04_{schedule}_[U] FF04_{schedule}_[W]	_schedule_type _task_ID _task_type _EV_method _ES_date _EF_date _AS_date _AF_date		
13. Assumptions						
14. Instructions						
OR IF FF04_{schedule}_[E]_ta: IF FF04_{schedule}_[D]_tas FROM FF04_{schedule}_[0]	ask_ID items and, if dule_type = BL k_ID IS IN FF04_{s C]_schedule_type = sk_type = M THEN sk_type <> M THEN k_ID IS NOT IN FF C]_schedule_type = sk_type = M THEN	chedule}_[C]_sche FC FF04_{schedule}_ I FF04_{schedule}_ 04_{schedule}_[C] BL FF04_{schedule}_	edule_type = FC [U]_AF_date = null AND _[U]_AF_date = null _schedule_type = FC [B]_CPP_status_date <	s. FF04_{schedule}_[T]_AS_date = null FF04_{schedule}_[M]_EF_date OR	Y qualifier sch. type incomplete	
IF FF04_{schedule}_[E]_ta • FF04_{schedule}_[K]_EV_n Determine X items, a subset o	nethod = 50-50		_[B]_CPP_status_date <	< FF04_{schedule}_[M]_EF_date	EVT X	

Determine X items, a subset of Y, based on the following.

Identify FF04_{schedule}_[D]_task_ID and, if identified, with the following characteristics. qualifier qualifier Count flagged items based on the following operation(s). operation • FF04_{schedule}_[W]_orig_duration > 44 work days

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 20, Management Value: "Budgets, established at the work package level identifying specific resource requirements in dollars, hours, or other measurable units, provide the detail for effective execution of the baseline plan. The resources are to be time-phased the way the detail work is to be accomplished. This approach provides meaningful product-related or management-oriented events for performance measurement."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE EVMS Metric Specification						
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency			
С	C.09.01	(12.02.01) (95)	automated	monthly			
5. Attribute							
Identify and Control Level of	Effort (LOE) Work	Scope					
6. Metric Intent							
	0 0			s metric ensures that incomplete CAs erent from the CPI for LOE effort.	having		
7. Metric Short Descrip	tion						
CA CPI delta discrete and L0	DE >= 0.1				а		
8. Metric							
X = Number of incomplete 1. EVT LOE CA DB is betwe 2. absolute difference betw	een 15% and 80%	of total CA DB, and					
Y = Number of incomplete	CA WBSs in the E	VMS cost tool.					
9. Max. Threshold	10. Max. 1	Folerance	11. Weight				
0			1.3				
12. Needed Artifacts ar	nd Data Element	ts					
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost}		FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS FF03_{cost}_[J]_EV_n FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCW FF03_{cost}_[M]_ACW	S_type nethod Pc			
13. Assumptions							
14. Instructions							
Determine Y items based on Count FF03_{cost}_[D]_WBS • FF03_{cost}_[G]_WBS_ty • FF03_{cost}_[L]_BCWPc	S items and, if ident pe = CA		ng characteristics.		Y qualifier WBS type incomplete		
Determine X items, a subset Identify FF03_{cost}_[D]_WE • FF03_{cost}_[K]_DB (whe • FF03_{cost}_[K]_DB (whe Count flagged items based o • abs(FF03_{cost}_[L]_BCW FF03_{cost} [L]_BCWpc	of Y, based on the 3S and, if identified, are FF03_{cost}_[J] are FF03_{cost}_[J] on the following ope VPc / FF03_{cost}_]	following. with the following cl _EV_method = LOE) _EV_method = LOE) ration(s). [M]_ACWPc (where	/ FF03_{cost}_[K]_DB > / FF03_{cost}_[K]_DB < { FF03_{cost}_[J]_EV_meth	30% nod <> LOE) -	X qualifier other 1 other 2 qualifier operation		
Determine if X or X/Y exceed		(<i>11</i>			

Page 23, Typical Attribute(s): "Level of effort work packages contain tasks of a general or supportive nature that do not produce definite end products, must be separately evaluated from discrete work packages within the control account..."

Page 23, Typical Attribute(s): "If level of effort and discrete work packages are ever mixed within the same control account, the control account manager must ensure visibility into the earned value technique for measuring performance of the discrete effort portion."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification						
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency		
С	C.09.02	(12.02.02) (96)	automated	monthly		
5. Attribute						
Identify and Control Level of	Effort (LOE) Work	Scope				
6. Metric Intent						
	0 0			netric ensures that incomplete CAs having ent from the SPI for LOE effort.		
7. Metric Short Descrip	tion					
CA SPI delta discrete and LC	DE >= 0.1			a		
8. Metric						
X = Number of incomplete 1. EVT LOE CA DB is betwe 2. absolute difference betw	een 15% and 80% (of total CA DB, and				
Y = Number of incomplete	CA WBSs in the E	VMS cost tool.				
9. Max. Threshold	10. Max. 1	olerance	11. Weight			
0			1.3			
12. Needed Artifacts an	nd Data Element	S				
Y artifact(s) FF03_{cost}	<u>X artifact(s)</u> FF03_{cost}		FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_t FF03_{cost}_[J]_EV_me FF03_{cost}_[K]_BCWS0 FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWP0	thod c		
13. Assumptions						
14. Instructions						
Determine Y items based on Count FF03_{cost}_[D]_WBS • FF03_{cost}_[G]_WBS_ty] • FF03_{cost}_[L]_BCWPc • Determine X items, a subset Identify FF03_{cost}_[D]_WB • FF03_{cost}_[K]_DB (whe • FF03_{cost}_[K]_DB (whe Count flagged items based o • abs(FF03_{cost}_[L]_BCW FE03_{cost}_[L]_BCW	S items and, if ident pe = CA < FF03_{cost}_[K]_ of Y, based on the 3S and, if identified, re FF03_{cost}_[J] re FF03_{cost}_[J] on the following open VPc / FF03_{cost}_[DB <u>following.</u> with the following ch _EV_method = LOE) _EV_method = LOE) ration(s). K]_BCWSc (where f	naracteristics. / FF03_{cost}_[K]_DB > 15 / FF03_{cost}_[K]_DB < 80	% other 2 qualifier d <> LOE) - operation		
Determine if X or X/Y exceed		,		<i>''</i>		

Page 23, Typical Attribute(s): "Level of effort work packages contain tasks of a general or supportive nature that do not produce definite end products, must be separately evaluated from discrete work packages within the control account..."

Page 23, Typical Attributes: "If level of effort and discrete work packages are ever mixed within the same control account, the control account manager must ensure visibility into the earned value technique for measuring performance of the discrete effort portion."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency		
С	C.09.03	(12.03.01) (97)	automated/manual	monthly		
5. Attribute						
Identify and Control Level of Ef	fort (LOE) Work	Scope				
6. Metric Intent						
This metric confirms that the ar meeting criteria based on the n				tric identifies the count of LOE	activities no	
7. Metric Short Description	on					
LOE unsubstantiated					I	
8. Metric						
X = Number of incomplete ac the SD.	tivities (only EV	/T LOEs) in the BL I	MS, where work associated	with EVT LOE does not meet	criteria in	
Y = Number of incomplete ac	tivities (only EV	/T LOEs) in the BL I	MS.			
9. Max. Threshold	10. Max.	Tolerance	11. Weight			
5.0%			1.3			
12. Needed Artifacts and	Data Elemen	ts				
Y artifact(s)	X artifact(s)		FF data elements			
FF04_{schedule}	SD	nd cost documents	FF04_{schedule}_[C]_sche FF04_{schedule}_[D]_task_ FF04_{schedule}_[G]_WBS FF04_{schedule}_[I]_task_ FF04_{schedule}_[K]_EV_r FF04_{schedule}_[L]_ES_c FF04_{schedule}_[M]_EF_	ID description method date		
13. Assumptions						
14. Instructions						
Determine Y items based on th	e following.				Y	
Count FF04_{schedule}_[D]_task_ID items and, if identified, with the following characteristics.						
 FF04_{schedule}_[C]_schedule_type = BL 						
 IF FF04_{schedule}_[D]_task FROM FF04_{schedule}_[C] IF FF04_{schedule}_[E]_task 		= FC		<pre>_{schedule}_[T]_AS_date = null</pre>	incomplete	
FF04_{schedule}_[B]_CPP_s OR	<_ID IS NOT IN I _schedule_type k_type = M THE status_date < FF	FF04_{schedule}_[C] = BL N FF04_{schedule}_ 04_{schedule}_[L]_E	_schedule_type = FC [B]_CPP_status_date < FF04_ S_date			
IF FF04_{schedule}_[E]_tas • FF04_{schedule}_[K]_EV_m		EN FF04_{schedule}	_[B]_CPP_status_date < FF04	4_{schedule}_[M]_EF_date	EVT	
Determine X items, a subset of Y, based on the following.						
Manually count flagged items based on the following operation(s).Work associated with EVT LOE does not meet the criteria in the contractor's SD and template.						

Page 23, Intent: "Each task on the project needs to be assessed to determine the best method to budget and measure its progress toward completion. Level of effort is defined as having no measurable output or product that can be discretely planned at the work package level. Level of effort must be limited to those activities that are unable to be measured discretely to avoid distorting project performance data."

16. Revision Block

description of change and sections affected	date prepared	prepared by	date approved	approved by
Jpdated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
Jpdated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
Jpdated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
Jpdated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank
	Jpdated for release. See track changes. Jpdated for release. See itemized revision list. Jpdated for release. None. Jpdated through 2019-03-13. Minor corrections.	Jpdated for release. See track changes.2022-01-21Jpdated for release. See itemized revision list.2020-02-10Jpdated for release. None.2019-07-31Jpdated through 2019-03-13. Minor corrections.2019-03-13	Jpdated for release. See track changes.2022-01-21PM-30Jpdated for release. See itemized revision list.2020-02-10PM-30Jpdated for release. None.2019-07-31PM-30Jpdated through 2019-03-13. Minor corrections.2019-03-13PM-30	Updated for release. See track changes. 2022-01-21 PM-30 2022-01-21 Jpdated for release. See itemized revision list. 2020-02-10 PM-30 2020-02-10 Jpdated for release. None. 2019-07-31 PM-30 2019-07-31 Jpdated through 2019-03-13. Minor corrections. 2019-03-13 PM-30 2019-03-14

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DOE EVMS Metric Specification						
1. Process Category	2. Metric ID (new, old)		3. Method	4. Frequency		
С	C.09.04	(12.01.01) (98)	automated	monthly		
5. Attribute						
Identify and Control Level of Eff	fort (LOE) Work S	Scope				
6. Metric Intent						
This metric identifies the count	of BL IMS incom	plete LOE activities	on the longest path or dri	iving paths.		
7. Metric Short Descriptic BL IMS, LOE on longest path	n				a A	
8. Metric						
X = Number of incomplete ac	tivities (only EV	Γ LOEs) in the BL I	MS, and on the longest	path.		
Y = Number of incomplete ac	tivities (only EV	Γ LOEs) in the BL I	MS.			
9. Max. Threshold	10. Max. T	olerance	11. Weight			
0			1.3			
12. Needed Artifacts and	Data Element	S				
<u>Y artifact(s)</u> FF04_{schedule} FF03_{cost}	<u>X artifact(s)</u> FF04[G]_W	3S	FF data elements FF04_{schedule}_[B] FF04_{schedule}_[C] FF04_{schedule}_[E] FF04_{schedule}_[K] FF04_{schedule}_[L] FF04_{schedule}_[L] FF04_{schedule}_[L] FF04_{schedule}_[T] FF04_{schedule}_[T] FF04_{schedule}_[L] FF04_{schedule}_[C] FF04_{schedule}_[C] FF04_{schedule}_[Aedule]_[Aed	_schedule_type _task_ID _task_type _EV_method _ES_date _EF_date _AS_date _AF_date		
13. Assumptions						
14. Instructions						
OR IF FF04_{schedule}_[E]_tasi IF FF04_{schedule}_[D]_task FROM FF04_{schedule}_[C] IF FF04_{schedule}_[E]_tas FF04_{schedule}_[B]_CPP_s OR	sk_ID items and, ule_type = BL <id ff04_<br="" in="" is="">schedule_type k_type = M THEN k_type <> M THEN (ID IS NOT IN F schedule_type k_type = M THEN status_date < FF(k_type <> M THEN</id>	{schedule}_[C]_sche = FC I FF04_{schedule}_[N FF04_{schedule}_ F04_{schedule}_[C] = BL N FF04_{schedule}_[L]_E	dule_type = FC U]_AF_date = null AND F [U]_AF_date = null _schedule_type = FC [B]_CPP_status_date < F S_date	s. FF04_{schedule}_[T]_AS_date = null FF04_{schedule}_[M]_EF_date OR ≤ FF04_{schedule}_[M]_EF_date	Y qualifier sch. type incomplete	
Determine X items, a subset of		following.			x	
Identify FF04_{schedule}_[D]_ta			wing characteristics.		qualifier	
Count flagged items based on t • FF04_{schedule}_[AB]_is_cr		ation(s).			qualifier	
	tucal = yes the threshold.					

Page 23, Intent: "Level of effort work packages contain tasks of a general or supportive nature that do not produce definite end products, must be separately evaluated from discrete work packages within the control account, and contain time-phased budgets for planning and control."

PASEG, Page 66: "If LOE tasking is included in the IMS it should be separately identifiable and not affect the critical path."

PASEG, Page 134: "...The path does not contain level-of-effort (LOE) or summary activities..."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE EVMS	Metric Specific	ation	
1. Process Category	2. Metric ID (new, ol	d) 3. Method	4. Frequency	
С	C.09.05 (12.01.02) (99) automated	monthly	
5. Attribute				
Identify and Control Level of	Effort (LOE) Work Scope			
6. Metric Intent				
This metric identifies the cour	nt of FC IMS incomplete LOE a	ctivities on the longest path or driv	ing paths.	
7. Metric Short Descript	tion			
FC IMS, LOE on longest path	ıff			а
8. Metric				
X = Number of incomplete a	activities (only EVT LOEs) in t	he FC IMS, and on the longest p	ath.	
Y = Number of incomplete a	activities (only EVT LOEs) in t	he FC IMS.		
9. Max. Threshold	10. Max. Tolerance	11. Weight		
0		1.3		
12. Needed Artifacts an	d Data Elements			
Y artifact(s)	X artifact(s)	FF data elements		
FF04_{schedule}	FF04_{schedule}	FF04_{schedule}_[C]_s FF04_{schedule}_[D]_t FF04_{schedule}_[E]_t FF04_{schedule}_[K]_E FF04_{schedule}_[T]_A FF04_{schedule}_[U]_A FF04_{schedule}_[AB]_	ask_ID ask_type EV_method \S_date \F_date	
13. Assumptions				
14. Instructions				
 FF04_{schedule}_[C]_sche IF FF04_{schedule}_[E]_ta OR 	task_ID items and, if identified, edule_type = FC sk_type = M THEN FF04_{sche usk_type <> M THEN FF04_{scl	with the following characteristics. edule}_[U]_AF_date = null AND FF hedule}_[U]_AF_date = null	04_{schedule}_[T]_AS_date = null	Y qualifier sch. type incomplete
Determine X items, a subset	of Y, based on the following.			x
	_task_ID and, if identified, with n the following operation(s).	the following characteristics.		qualifier qualifier operation
Determine if X or X/Y exceed				
15. Reference(s)				

15. Reference(s)

Page 23, Intent: "Level of effort work packages contain tasks of a general or supportive nature that do not produce definite end products, must be separately evaluated from discrete work packages within the control account, and contain time-phased budgets for planning and control."

PASEG, Page 66: "If LOE tasking is included in the IMS it should be separately identifiable and not affect the critical path."

PASEG, Page 134: "...The path does not contain level-of-effort (LOE) or summary activities..."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency		
С	C.10.01	(14.01.01) (100)	automated	monthly		
5. Attribute						
Identify Management Reserv	e (MR) Budget					
6. Metric Intent						
This metric confirms that MR dollar value = \$0.	is held outside the	PMB. This metric en	sures the project TAB do	ollar value less the PMB dollar value les	s the MR	
7. Metric Short Descrip	tion					
TAB - PMB - MR <> 0					a A	
8. Metric						
X = TAB - PMB - MR <> 0.						
N/A						
9. Max. Threshold	10. Max. '	Tolerance	11. Weight			
0	1000		1.7			
12. Needed Artifacts an	nd Data Elemen	ts				
	<u>X artifact(s)</u> FF03_{cost FF07_{IPMI	}		- [AC]_F1_8_d_UB_bgt - [AF]_F1_8_f_MR_bgt }_[AI]_F3_5_f_TAB		
13. Assumptions						
TAB = CBB + overrun						
14. Instructions						
Determine X items, a subset	of Y, based on the	following.			x	
Sum flagged items based on FF07_{IPMR_header}_[Al]]_F3_5_f_TAB - FF	- - - - - - - - - - - - - - - - - - -	F07_{IPMR_header}_[A	.C]_F1_8_d_UB_bgt -	qualifier operation	
FF07_{IPMR_header}_[AF		<> 0				
Determine if X or X/Y exceed	Is the threshold.					
15. Reference(s)						

15. Reference(s)

Page 26, Intent: "Because management reserve is budget that is not yet tied to work, it does not form part of the performance measurement baseline."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

				Senter
1. Process Category	2. Metric	ID (new, old)	3. Method 4. Freque	ency
с	C.11.02	(14.03.01) (101)	automated initially & semi-annua planning in	ally to align with horizo crements
5. Attribute				
Undistributed Budget (UB)				
6. Metric Intent				
	•		e traceable, controlled, and limited to authorized the PMB budget value listed on the IPMR F1 and	
7. Metric Short Descripti	on			
DB, change control log <> IPM	1R F1			
8. Metric				
X = Last 6 months of DB in t	he change contr	ol log, where chang	e control log DB <> IPMR F1 DB.	
Y = Last 6 months of DB in t	he change contr	ol log.		
9. Max. Threshold	10. Max. 1	Tolerance	11. Weight	
0	1000		1.1	
12. Needed Artifacts and	l Data Elemen	ts		
<u>Y artifact(s)</u> FF03_{cost} CPP-5_FF03_{cost}	<u>X artifact(s)</u> FF03_{cost} FF12_{CC_	ł	FF data elements FF03_{cost}_[B]_CPP_status_date FF03_{cost}_[K]_DB FF12_{CC_log_detail}_[B]_CPP_status_date FF12_{CC_log_detail}_[F]_trn_category FF12_{CC_log_detail}_[I]_credit_dollars_cum FF12_{CC_log_detail}_[K]_debit_dollars_cum CPP-5_FF03_{cost}_[B]_CPP_status_date	
13. Assumptions				
14. Instructions				
Determine Y items based on th	ne following.			Y
Count FF03_{cost}_[B]_CPP_s	—		-	qualifier other 1
FF03_{cost}_[B]_CPP_statu			P_status_date	X
Determine X items, a subset o			d, with the following characteristics.	X qualifier
FF12 {CC log detail} [F] 1				other 1
Count flagged items based on				qualifier
 FF03_{cost}_[K]_DB <> FF 	12_{CC_log_deta	il}_[l]_credit_dollars_	cum + FF12_{CC_log_detail}_[K]_debit_dollars_c	um operation
Determine if X or X/Y exceeds	the threshold.			

15. Reference(s)

Page 26, Management Value: "To ensure that budget for newly authorized efforts remains tied to the associated scope during the initial planning process, Undistributed Budget (UB) has been designated as the short-term holding account. Once the responsible organization(s) has been identified, the budget will transfer from undistributed budget to the appropriate control account(s)."

Page 26, Intent: "Undistributed budget is budget that is applicable to specific project effort, but has not yet been distributed below the project level either directly to control accounts or to summary level planning packages. It is a transient amount because, once it is distributed to either control accounts or to summary level planning packages, it ceases to be undistributed budget. Because undistributed budget is budget that is tied to work, it does form part of the performance measurement baseline. Undistributed budget accounts are to be cleared in a reasonably timely manner as work scope is finalized and distributed to control accounts or to summary level planning packages."

Page 26, Typical Attribute(s): "Program control logs including:

• Undistributed budget (showing month end values; monthly sources and applications to control accounts; current value)."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency
С	C.11.03	(14.03.02) (102)	automated	initially & semi-annually to align with horizo planning increments
5. Attribute				
Undistributed Budget (UB)				
6. Metric Intent				
•			e traceable, controlled, and limited t the UB budget value listed on the IF	
7. Metric Short Description	1			
UB, change control log <> IPMR	F1			
8. Metric				
X = Last 6 months of UB in the	change control	log, where chang	e control log UB <> IPMR F1 UB.	
Y = Last 6 months of UB in the	change control	log.		
9. Max. Threshold	10. Max. Tol	lerance	11. Weight	
0	1000		1.3	
12. Needed Artifacts and D	Data Elements			
<u>Y artifact(s)</u> FF07_{IPMR_header} CPP-5_FF07_{IPMR_header}	<u>X artifact(s)</u> FF07_{IPMR_t FF12_{CC_log		FF data elements FF07_{IPMR_header}_[B]_CPP_s FF07_{IPMR_header}_[AC]_F1_E FF12_{CC_log_detail}_[B]_CPP_s FF12_{CC_log_detail}_[F]_trn_ca FF12_{CC_log_detail}_[I]_credit_s FF12_{CC_log_detail}_[I]_credit_s FF12_{CC_log_detail}_[K]_debit_s CPP-5_FF07_{IPMR_header}_[B]_CPP_s	3_d_UB_bgt status_date tegory dollars_cum dollars_cum
13. Assumptions				
14. Instructions				
Determine Y items based on the	following.			Y
			tified, with the following characterist IR_header}_[B]_CPP_status_date	İCS. qualifier other 1
Determine X items, a subset of Y	, based on the fol	lowing.		x
		ate and, if identified	d, with the following characteristics.	qualifier other 1
FF12_{CC_log_detail}_[F]_trn Count flagged itoms based on the	_ 0,	ion(s)		omer i qualifier
Count flagged items based on th FF07_{IPMR_header}_[AC]_F FF12_{CC_log_detail}_[K]_de		()	etail}_[I]_credit_dollars_cum +	operation
Determine if X or X/V exceeds th	e threshold			

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 26, Management Value: "To ensure that budget for newly authorized efforts remains tied to the associated scope during the initial planning process, Undistributed Budget (UB) has been designated as the short-term holding account. Once the responsible organization(s) has been identified, the budget will transfer from undistributed budget to the appropriate control account(s)."

Page 26, Intent: "Undistributed budget is budget that is applicable to specific project effort, but has not yet been distributed below the project level either directly to control accounts or to summary level planning packages. It is a transient amount because, once it is distributed to either control accounts or to summary level planning packages, it ceases to be undistributed budget. Because undistributed budget is budget that is tied to work, it does form part of the performance measurement baseline. Undistributed budget accounts are to be cleared in a reasonably timely manner as work scope is finalized and distributed to control accounts or to summary level planning packages."

Page 26, Typical Attribute(s): "Program control logs including:

• Undistributed budget (showing month end values; monthly sources and applications to control accounts; current value)."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

				and the second se
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency
с	C.12.01	(14.03.03) (103)	manual	initially & semi-annually to align with horizo planning increments
5. Attribute				
Reconcile to Target Cost Goa	I			
6. Metric Intent				
This metric confirms that UB is be distributed. This metric veri				nd limited to authorized effort which cannot ye ue and tracked by change.
7. Metric Short Descripti	ion			
AUW unsubstantiated				
8. Metric				
4. AUW, MR, UB, and DB val N/A 9. Max. Threshold	10. Max. To	-	11. Weight	
o. wax. Threshold	10. Max. 10	lerance	1.3	
12. Needed Artifacts and	l Data Flamanta		1.0	
12. Needed Artifacts and	X artifact(s)			
	IPMR F1 CBB log			
13. Assumptions				
14. Instructions				
Conduct the following manual	operation(s).			manual
 1. AUW value is not support 2. AUW authorization by DC 3. AUW, MR, UB, and DB a 4. AUW, MR, UB, and DB v 	DE is not based on fur re not distributed via	ull scope or is limite change control pro	ed to including by NTE or f	operation
Determine if V or V/V evenede	الملمح والمعام والما			

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 26, Management Value: "To ensure that budget for newly authorized efforts remains tied to the associated scope during the initial planning process, Undistributed Budget (UB) has been designated as the short-term holding account. Once the responsible organization(s) has been identified, the budget will transfer from undistributed budget to the appropriate control account(s)."

Page 26, Intent: "Undistributed budget is budget that is applicable to specific project effort, but has not yet been distributed below the project level either directly to control accounts or to summary level planning packages. It is a transient amount because, once it is distributed to either control accounts or to summary level planning packages, it ceases to be undistributed budget. Because undistributed budget is budget that is tied to work, it does form part of the performance measurement baseline. Undistributed budget accounts are to be cleared in a reasonably timely manner as work scope is finalized and distributed to control accounts or to summary level planning packages."

Page 26, Typical Attribute(s): "Program control logs including:

• Undistributed budget (showing month end values; monthly sources and applications to control accounts; current value)."

16. Revision Block	16.	Revision	Block
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rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

		•		Barris a Mar
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency	
С	C.12.02 (15.01.01) (104) automated	monthly	
5. Attribute				
Reconcile to Target Cost Goa	l			
6. Metric Intent				
This metric confirms that there	e is a reconciliation of the TAB.			
7. Metric Short Descript	ion			
NCC + AUW + OTB overrun <	<> PMB + MR			а
8. Metric				
X = NCC + AUW + OTB over	run <> PMB + MR.			
N/A				
9. Max. Threshold	10. Max. Tolerance	11. Weight		
0	1000	1.3		
12. Needed Artifacts and	d Data Elements			
	<u>X_artifact(s)</u> FF03_{cost} FF07_{IPMR_header} FF08_{IPMR_F1}	FF data elements FF03_{cost}_[B]_CPP_st FF03_{cost}_[K]_DB FF07_{IPMR_header}_[B] FF07_{IPMR_header}_[N] FF07_{IPMR_header}_[C] FF07_{IPMR_header}_[A] FF07_{IPMR_header}_[A] FF07_{IPMR_header}_[A] FF08_{IPMR_F1}_[B]_C] FF08_{IPMR_F1}_[N]_R]	-]_CPP_status_date]_F1_5_b_tot_neg_cost]_F1_5_c_AUW]_F1_6_c_CBB C]_F1_8_d_UB_bgt .F]_F1_8_f_MR_bgt .I]_F3_5_f_TAB PP_status_date	
13. Assumptions				
14. Instructions				
Determine X items, a subset of Identify FF03_{cost}_[B]_CPF FF07_{IPMR_header}_[B]_CF	P_status_date PP_status_date	following obstractoristics		X qualifier
Sum flagged items based on t	status_date and, if identified, with the the following operation(s).	tonowing characteristics.		qualifier
 abs(- FF07_{IPMR_header FF08_{IPMR_F1}_[N]_RP0 FF07_{IPMR_header}_[AF] OR abs(FF07_{IPMR_header} 	}_[N]_F1_5_b_tot_neg_cost - FF07_ G_BAC + FF03_{cost}_[K]_DB + FF0 [_F1_8_f_MR_bgt) <> 0 [Al] F3 5 f TAB - FF07 {IPMR he	7_{IPMR_header}_[AC]_F1_8 ader} [N] F1 5 b tot neg co	_d_UB_bgt + ost -	operation
FF07_{IPMR_header}_[0]	F1_5_c_AUW - FF07_{IPMR_heade	er}_[Y]_F1_6_c_CBB + FF03_{	[cost]_[K]_DB +	

F07_{IPMR_header}_[AC]_F1_8_d_UB_bgt + FF07_{IPMR_header}_[AF]_F1_8_f_MR_bgt) <> 0

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 28, Management Value: "The project target cost [TAB] must be reconciled with the performance measurement baseline and management reserve."

Page 28, Intent: "Reconcile the project value (target cost [TAB] plus authorized, unpriced work) with the sum of all control account budgets, indirect budgets, management reserves, and undistributed budgets."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
D	D.01.01	(16.02.01) (105)	automated/manual	initially & semi-annually to align with horizor planning increments
5. Attribute				
Direct Costs				
6. Metric Intent				
				material, and ODC, are consistent with the lirect costs are consistent with the approve

7. Metric Short Description

direct costs, EVMS cost tool <> accounting system

8. Metric

X = Number of WP and PP WBS by EOC in the EVMS cost tool, where the direct costs are not consistent with the approved disclosure statement or the contractor cannot demonstrate random time card audits within the last quarter.

Y = Number of WP and PP WBS by EOC in the EVMS cost tool.

9. Max. Threshold	10. Max. Tolerance	11. Weight	
0		1.7	
12. Needed Artifacts and D	ata Elements		
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost} approved disclosure statement time card audits data presented by contractor	<u>FF data elements</u> FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_type	
13. Assumptions			
14. Instructions			
Determine Y items based on the Count FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type =	FF03_{cost}_[E]_EOC items and, if i	identified, with the following characteristics.	Y qualifier WBS type
Determine X items, a subset of Y Manually count flagged items bas			X qualifier
	tent with the accounting system incl me card audits within the last quarter	uding the approved disclosure statement or the contractor r.	operation

Determine if X or X/Y exceeds the threshold.

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15. Reference(s)

Page 29, Typical Attribute(s): "Contractor's cost accounting standards disclosure statement identifying treatment of direct costs (direct material, labor, and other direct costs), indirect costs, depreciation and capitalization, and other costs and credits."

16. Rev	vision Block					
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by	
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank	
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank	
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank	
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank	
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank	

					1
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
D	D.02.01	(16.01.01) (106)	automated/manual	quarterly	
5. Attribute					
Actual Cost Reconciliation					
6. Metric Intent					
				al costs from the accounting sys and the accounting system for th	
7. Metric Short Descripti	on				
ACWPc, EVMS cost tool <> a	ccounting system				I
8. Metric					
X = ACWPc in the EVMS cos	t tool, <> account	ng system.			
Y = ACWPc in the EVMS cos Conduct at the CA level if A0		VBS level.			
9. Max. Threshold	10. Max. To	lerance	11. Weight		
1000			1.8		
12. Needed Artifacts and	l Data Elements	i de la companya de l			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost} accounting sy	stem	<u>FF data elements</u> FF03_{cost}_[B]_CPP_sta FF03_{cost}_[M]_ACWPo	—	
13. Assumptions					
14. Instructions					
Determine Y items based on th	he following.				Y
Sum FF03_{cost}_[B]_CPP_st	—	d, if identified, with	the following characteristics		qualifier
 Sum FF03_{cost}_[M]_ACW 					
<u>Determine X items, a subset o</u> Manually sum flagged items ba					X qualifier
 FF03_{cost}_[M]_ACWPc < 		• • • • • •			operation
Determine if X or X/Y exceeds	the threshold.				

15. Reference(s)

Page 29, Intent: "Actual costs reported in the performance reports agree with the costs recorded in the general books of account (accounting system) or can be explained as timing differences."

Page 29, Typical Attributes: "Control account actual costs/general ledger reconciliation."

description of change and sections affected	date prepared	prepared by	date approved	approved by
Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank
	Updated for release. See track changes. Updated for release. See itemized revision list. Updated for release. None. Updated through 2019-03-13. Minor corrections.	Updated for release. See track changes.2022-01-21Updated for release. See itemized revision list.2020-02-10Updated for release. None.2019-07-31Updated through 2019-03-13. Minor corrections.2019-03-13	Updated for release. See track changes.2022-01-21PM-30Updated for release. See itemized revision list.2020-02-10PM-30Updated for release. None.2019-07-31PM-30Updated through 2019-03-13. Minor corrections.2019-03-13PM-30	Updated for release. See track changes. 2022-01-21 PM-30 2022-01-21 Updated for release. See itemized revision list. 2020-02-10 PM-30 2020-02-10 Updated for release. None. 2019-07-31 PM-30 2019-07-31 Updated through 2019-03-13. Minor corrections. 2019-03-13 PM-30 2019-03-14

1. Process Category	2. Metric ID (new, old)	3. Method		4. Frequenc	y
D		(16.03.01) (107)	automated		monthly	-
5. Attribute						
Recording Direct Costs to Con	trol Accounts (CAs) a	and/or Work Pack	ages (WP)			
6. Metric Intent	. ,		,			
This metric test confirms that c This metric ensures the dollar the BCWPc.						
7. Metric Short Descripti	on					
A without P (cumulative) non-r	naterial/overhead					а
8. Metric						
X = \$ total of non-material ar	nd non-overhead WF	P WBS ACWPc ir	the EVMS cost tool,	where ACWPc	: > \$1K and BC	CWPc <= 0.
Y = \$ total of non-material ar Conduct at the CA level if AC			the EVMS cost tool.			
9. Max. Threshold	10. Max. Tole	erance	11. Weight			
1.0%			1.8			
12. Needed Artifacts and	I Data Elements					
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost}		FF data elements FF03_{cost}_[D]_WI FF03_{cost}_[E]_EC FF03_{cost}_[G]_WI FF03_{cost}_[L]_BC FF03_{cost}_[M]_A(PC 3S_type WPc		
13. Assumptions						
•	P level. If ACWPs are	e collected at the	CA level, test needs to	be conducted	at CA level.	
 Assumptions ACWPs are collected at the W 14. Instructions 	P level. If ACWPs an	e collected at the	CA level, test needs to	be conducted	at CA level.	
ACWPs are collected at the W 14. Instructions <u>Determine Y items based on th</u> Sum FF03_{cost}_[D]_WBS_by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m	ne following. y FF03_{cost}_[E]_E0 e = WP naterial or overhead					Y qualifier WBS type EOC sum
ACWPs are collected at the W 14. Instructions <u>Determine Y items based on th</u> Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M]	ne following_ y FF03_{cost}_[E]_E0 e = WP naterial or overhead ACWPc)	DC items and, if ic				qualifier WBS type EOC
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M]_, Determine X items, a subset of	ne following. y FF03_{cost}_[E]_E0 ∋ = WP naterial or overhead ACWPc) f Y, based on the follo	DC items and, if ic	lentified, with the follow			qualifier WBS type EOC sum
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M] Determine X items, a subset o Identify FF03_{cost}_[D]_WBS • FF03_{cost}_[M]_ACWPc >	ne following. y FF03_{cost}_[E]_E0 e = WP naterial or overhead ACWPc) f Y, based on the follo and, if identified, wit 1,000	DC items and, if ic	lentified, with the follow			qualifier WBS type EOC sum X qualifier other 1
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M] Determine X items, a subset o Identify FF03_{cost}_[D]_WBS • FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[L]_BCWPc <=	ne following. y FF03_{cost}_[E]_E0 e = WP naterial or overhead ACWPc) f Y, based on the follo 3 and, if identified, wit 1,000 = 0	DC items and, if ic <u>owing.</u> h the following ch	lentified, with the follow			qualifier WBS type EOC sum X qualifier
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M]_, Determine X items, a subset on Identify FF03_{cost}_[D]_WBS • FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[L]_BCWPc <= Sum flagged items based on the Sum flagged items based on the • FF03_{cost}_{cost}_{cost} = 100000000000000000000000000000000000	ne following. y FF03_{cost}_[E]_E0 e = WP naterial or overhead ACWPc) f Y, based on the follo 3 and, if identified, wit 1,000 = 0	DC items and, if ic <u>owing.</u> h the following ch	lentified, with the follow			qualifier WBS type EOC sum Qualifier other 1 other 2
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[G]_EOC <> m • Sum abs(FF03_{cost}_[M]_ Determine X items, a subset on Identify FF03_{cost}_[D]_WBS • FF03_{cost}_[M]_ACWPc <= Sum flagged items based on th • FF03_{cost}_[M]_ACWPc	he following. y FF03_{cost}_[E]_E0 = WP haterial or overhead ACWPc) f Y, based on the follo and, if identified, wit 1,000 = 0 he following operation	DC items and, if ic <u>owing.</u> h the following ch	lentified, with the follow			qualifier WBS type EOC sum Qualifier other 1 other 2 qualifier
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M]_, Determine X items, a subset on Identify FF03_{cost}_[D]_WBS • FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[M]_ACWPc • FF03_{cost}_[M]_ACWPc Determine if X or X/Y exceeds	he following. y FF03_{cost}_[E]_E0 = WP haterial or overhead ACWPc) f Y, based on the follo and, if identified, wit 1,000 = 0 he following operation	DC items and, if ic <u>owing.</u> h the following ch	lentified, with the follow			qualifier WBS type EOC sum Qualifier other 1 other 2 qualifier
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[G]_WBS_type • Sum abs(FF03_{cost}_[M]_ Determine X items, a subset o Identify FF03_{cost}_[D]_WBS • FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[L]_BCWPc <= Sum flagged items based on th • FF03_{cost}_[M]_ACWPc Determine if X or X/Y exceeds 15. Reference(s)	he following. y FF03_{cost}_[E]_E0 = WP haterial or overhead ACWPc) f Y, based on the follo and, if identified, wit 1,000 = 0 he following operation the threshold.	DC items and, if ic <u>owing.</u> h the following ch n(s).	lentified, with the follow	ing characteris	tics.	qualifier WBS type EOC sum Qualifier other 1 other 2 qualifier operation
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M] Determine X items, a subset on Identify FF03_{cost}_[D]_WBS • FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[L]_BCWPc <= Sum flagged items based on th • FF03_{cost}_[M]_ACWPc Determine if X or X/Y exceeds 15. Reference(s) Page 29, Intent: "Accumulate of	he following. y FF03_{cost}_[E]_E0 = WP haterial or overhead ACWPc) f Y, based on the follo and, if identified, wit 1,000 = 0 he following operation the threshold.	DC items and, if ic <u>owing.</u> h the following ch n(s).	lentified, with the follow	ing characteris	tics.	qualifier WBS type EOC sum Qualifier other 1 other 2 qualifier operation
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03 {cost} [D]_WBS by • FF03 {cost} [G]_WBS_type • FF03 {cost} [G]_WBS_type • FF03 {cost} [E]_EOC <> m • Sum abs(FF03 {cost} [M]_ACWPC Determine X items, a subset on Identify FF03 {cost} [D]_WBS • FF03 {cost} [M]_ACWPc > • FF03 {cost} [L]_BCWPc <= Sum flagged items based on th • FF03 {cost} [M]_ACWPc Determine if X or X/Y exceeds 15. Reference(s) Page 29, Intent: "Accumulate of and budgeted."	he following. y FF03_{cost}_[E]_E0 = WP haterial or overhead ACWPc) f Y, based on the follo and, if identified, wit 1,000 = 0 he following operation the threshold.	DC items and, if ic <u>owing.</u> h the following ch n(s).	lentified, with the follow	ing characteris	tics.	qualifier WBS type EOC sum Qualifier other 1 other 2 qualifier operation
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[L]_BCWPc <= Sum flagged items based on th • FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[M]_ACWPc > Exponentional tems based on th • FF03_{cost}_[M]_ACWPc > Determine if X or X/Y exceeds 15. Reference(s) Page 29, Intent: "Accumulate of and budgeted." 16. Revision Block rev. no. description of change	he following. y FF03_{cost}_[E]_E0 = WP haterial or overhead ACWPc) f Y, based on the follo and, if identified, wit 1,000 = 0 he following operation the threshold. direct costs in the form a and sections affected	DC items and, if ic <u>owing.</u> h the following ch h(s). nal accounting sy	lentified, with the follow aracteristics. stem in a manner cons	istent with the v	tics. way the related approved	qualifier WBS type EOC sum (ualifier other 1 other 2 qualifier operation work is planned approved by
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M]_ Determine X items, a subset on Identify FF03_{cost}_[D]_WBS • FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[M]_ACWPc > Sum flagged items based on th • FF03_{cost}_[M]_ACWPc > Determine if X or X/Y exceeds 15. Reference(s) Page 29, Intent: "Accumulate of and budgeted." 16. Revision Block rev. no. description of change V04.00 Updated for release. S	he following. y FF03_{cost}_[E]_E0 = WP haterial or overhead ACWPc) f Y, based on the following and, if identified, wit 1,000 = 0 he following operation the threshold. direct costs in the form and sections affected Gee track changes.	DC items and, if ic <u>owing.</u> h the following channel n(s). nal accounting sy	lentified, with the follow aracteristics. stem in a manner cons epared prepared 01-21 PM-30	ing characteris	tics. way the related approved 22-01-21	qualifier WBS type EOC sum qualifier other 1 other 2 qualifier operation work is planned
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M] Determine X items, a subset on Identify FF03_{cost}_[D]_WBS • FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[L]_BCWPc <= Sum flagged items based on th • FF03_{cost}_[M]_ACWPc Determine if X or X/Y exceeds 15. Reference(s) Page 29, Intent: "Accumulate of and budgeted." 16. Revision Block rev. no. description of change V04.00 Updated for release. S V03.00 Updated for release. S	he following. y FF03_{cost}_[E]_E0 = WP haterial or overhead ACWPc) f Y, based on the following and, if identified, wit 1,000 = 0 he following operation the threshold. direct costs in the form and sections affected See track changes. See itemized revision list	DC items and, if ic <u>owing.</u> h the following chan h(s). n(s). date pr 2022- 2020-	lentified, with the follow aracteristics. stem in a manner cons epared prepared 01-21 PM-30 02-10 PM-30	ing characteris	tics. way the related approved 22-01-21 20-02-10	qualifier WBS type EOC sum qualifier other 1 other 2 qualifier operation work is planned
ACWPs are collected at the W 14. Instructions Determine Y items based on th Sum FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[E]_EOC <> m • Sum abs(FF03_{cost}_[M] Determine X items, a subset on Identify FF03_{cost}_[D]_WBS • FF03_{cost}_[M]_ACWPc > • FF03_{cost}_[L]_BCWPc <= Sum flagged items based on th • FF03_{cost}_[M]_ACWPc Determine if X or X/Y exceeds 15. Reference(s) Page 29, Intent: "Accumulate of and budgeted." 16. Revision Block rev. no. description of change V04.00 Updated for release. S V03.00 Updated for release. N	he following. y FF03_{cost}_[E]_E0 = WP haterial or overhead ACWPc) f Y, based on the following and, if identified, wit 1,000 = 0 he following operation the threshold. direct costs in the form and sections affected See track changes. See itemized revision list	DC items and, if ic <u>owing.</u> h the following chan h(s). n(s). date pr 2022- 2020- 2019-	lentified, with the follow aracteristics. stem in a manner cons epared prepared 01-21 PM-30 02-10 PM-30 07-31 PM-30	ing characteris istent with the by date by 20 b) 20 b) 20	tics. way the related approved 22-01-21	qualifier WBS type EOC sum qualifier other 1 other 2 qualifier operation work is planned

,	DOE EVMS	Metric S	pecificat	ion	
1. Process Category 2.	. Metric ID (new, ol	d) 3. Meth	od	4. Frequen	су
D D	.03.02 (16.03.02	!) (108) automate	•d	monthly	
5. Attribute					
Recording Direct Costs to Control Acc	counts (CAs) and/or Wo	ork Packages (WP)			
6. Metric Intent		U ()			
This metric confirms that direct costs a This metric ensures the dollar value o the ACWPc.			0	,	· •
7. Metric Short Description					
P without A (cumulative) non-material	/overhead				а
8. Metric					
X = \$ total of non-material and non-	overhead WP WBS B	CWPc in the EVMS	cost tool where	BCWPc > \$1K and	
Y = \$ total of non-material and non- Conduct at the CA level if ACWP is	-overhead WP WBS B				
9. Max. Threshold 10	0. Max. Tolerance	11. Wei	ght		
1.0%		1.8			
12. Needed Artifacts and Data	Elements				
	artifact(s)	FF data e	elements		
	F03_{cost}	FF03_{cc FF03_{cc FF03_{cc FF03_{cc FF03_{cc		e	
13. Assumptions					
ACWPs are collected at the WP level.	. If ACWPs are collecte	d at the CA level, te	st needs to be con	ducted at CA level.	
14. Instructions					
Determine Y items based on the follow	wing.				Y
Sum FF03_{cost}_[D]_WBS by FF03_		and, if identified, wit	the following cha	aracteristics.	qualifier
 FF03_{cost}_[G]_WBS_type = WP 					WBS type
 FF03_{cost}_[E]_EOC <> material 					EOC
 Sum abs(FF03_{cost}_[L]_BCWPc) 					
Determine X items, a subset of Y, bas					X qualifier
Identify FF03_{cost}_[D]_WBS and, if	identified, with the follo	wing characteristics	<u>،</u>		other 1
 FF03_{cost}_[L]_BCWPc > 1,000 FF03_{cost}_[M]_ACWPc <= 0 					other 2
Sum flagged items based on the follow	wing operation(s).				qualifier
 FF03_{cost}_[L]_BCWPc 	0 1 ()				operation
Determine if X or X/Y exceeds the three	eshold.				
15. Reference(s)					
Page 29, Intent: "Accumulate direct co and budgeted."	osts in the formal accou	unting system in a m	anner consistent v	with the way the relate	ed work is planned
16. Revision Block					
rev. no. description of change and se	ctions affected	date prepared	prepared by	date approved	approved by
V04.00 Updated for release. See track		2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00 Updated for release. See itemi	zed revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00 Updated for release. None.		2019-07-31	PM-30	2019-07-31	Melvin Frank
	N 4:	0040 00 40	DN1 88	0040 00 44	
V01.01 Updated through 2019-03-13. I	winor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank

	DOE	EVMS Me	tric Specific	ation	
1. Process Category	2. Metric	D (new, old)	3. Method	4. Frequency	
D	D.03.03	(16.03.03) (109)	automated	monthly	
5. Attribute					
Recording Direct Costs to Cor	ntrol Accounts (CA	s) and/or Work Pack	ages (WP)		
6. Metric Intent					
				re established and, at a minim terial direct EOC ACWPi does	
7. Metric Short Descript	ion				
P without A (incremental) non-	-material/overhead	t			а
3. Metric					
K = \$ total of non-material a	nd non-overhead	WP WBS BCWPi in	the EVMS cost tool, who	ere BCWPi > \$1K and ACWP	i <= 0.
f = \$ total of non-material a Conduct at the CA level if A			the EVMS cost tool.		
9. Max. Threshold	10. Max. 1	Tolerance	11. Weight		
1.0%			1.8		
2. Needed Artifacts and	d Data Element	ts			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost}		FF data elements FF03_{cost}_[B]_CPP_ FF03_{cost}_[C]_perioc FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[C]_WBS_ FF03_{cost}_[L]_inc_BC FF03_{cost}_[M]_inc_A	I_date type CWP_dollars	
13. Assumptions				_	
ACWPs are collected at the W	/P level. If ACWPs	are collected at the	CA level, test needs to be	conducted at CA level.	
14. Instructions					
Determine Y items based on t Sum FF03_{cost}_[D]_WBS b • FF03_{cost}_[G]_WBS_typ • FF03_{cost}_[E]_EOC <> n • FF03_{cost}_[B]_CPP_stati • Sum abs(FF03_{cost}_[L]_i	y FF03_{cost}_[E] e = WP naterial or overhea us_date = FF03_{	ad cost}_[C]_period_dat		characteristics.	Y qualifier WBS type EOC other 1 sum
Determine X items, a subset of dentify FF03_{cost}_[D]_WBS FF03_{cost}_[L]_inc_BCWF FF03_{cost}_[M]_inc_ACW Sum flagged items based on t FF03 {cost} [L] inc BCWF	of Y, based on the S and, if identified, P_dollars > 1,000 P_dollars <= 0 he following opera	following. with the following ch	aracteristics.		X qualifier other 1 other 2 qualifier operation
Determine if X or X/Y exceeds	-				
15. Reference(s)					
.,	direct costs in the	formal accounting sy	stem in a manner consiste	ent with the way the related wo	ork is planned
16. Revision Block					
rev. no. description of change	e and sections affe	cted date pr	repared prepared by	date approved a	approved by

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE	EVMS Me	tric Speci	fication	
1. Process Category	2. Metric II	D (new, old)	3. Method	4. Frequen	су
D	D.03.04	(16.03.04) (110)	automated	monthly	
5. Attribute					
Recording Direct Costs to Contro	ol Accounts (CAs	and/or Work Pack	ages (WP)		
6. Metric Intent					
This metric confirms that direct c This metric ensures the dollar va the ACWPi.					
7. Metric Short Descriptior	1				
A without P (incremental) non-ma	aterial/overhead				а
8. Metric					
K = \$ total of non-material and	non-overhead \	WP WBS ACWPi in	the EVMS cost too	ol, where ACWPi > \$1K and BC	CWPi <= 0.
Y = \$ total of non-material and Conduct at the CA level if ACW			the EVMS cost too	bl.	
9. Max. Threshold	10. Max. To	olerance	11. Weight		
1.0%			1.8		
12. Needed Artifacts and D)ata Elements	5			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost}		FF03_{cost}_[C] FF03_{cost}_[D] FF03_{cost}_[E] FF03_{cost}_[G] FF03_{cost}_[L]	CPP_status_date period_date WBS EOC	
13. Assumptions					
ACWPs are collected at the WP	level. If ACWPs	are collected at the	CA level, test needs	to be conducted at CA level.	
14. Instructions					
Determine Y items based on the Sum FF03_{cost}_[D]_WBS by F • FF03_{cost}_[G]_WBS_type = • FF03_{cost}_[E]_EOC <> mat • FF03_{cost}_[B]_CPP_status_ • Sum abs(FF03_{cost}_[M]_inc	F03_{cost}_[E]_ WP erial or overhead _date = FF03_{co	d pst}_[C]_period_dat		lowing characteristics.	Y qualifier WBS type EOC other 1 sum
Determine X items, a subset of Y Identify FF03_{cost}_[D]_WBS a • FF03_{cost}_[M]_inc_ACWP_ • FF03_{cost}_[L]_inc_BCWP_c Sum flagged items based on the • FF03_{cost}_[M]_inc_ACWP_	nd, if identified, v dollars > 1,000 dollars <= 0 following operat	with the following ch	aracteristics.		X qualifier other 1 other 2 qualifier operation
Determine if X or X/Y exceeds th	e threshold.				
15. Reference(s)					
	ect costs in the f	ormal accounting sy	/stem in a manner co	onsistent with the way the relate	d work is planned
16. Revision Block					
rev. no. description of change a		ted date pi		ared by date approved	approved by

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE EVMS M	etric Specifica	tion	
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency	
D	D.03.05 (16.03.05) (111) automated	monthly	
5. Attribute				
Recording Direct Costs to Co	ontrol Accounts (CAs) and/or Work Pa	ickages (WP)		
6. Metric Intent				
	t direct costs are recorded in the CA o r value of the CA or WP (or where cos			
7. Metric Short Descrip	tion			
P without A (cumulative) non	-material/overhead completed			a .
8. Metric				
X = \$ total of completed no	n-material and non-overhead WP W	/BS BCWPc in the EVMS cos	t tool, where ACWPc <= (D.
•	n-material and non-overhead WP W ACWP is at the CA WBS level.	/BS BCWPc in the EVMS cos	t tool.	
9. Max. Threshold	10. Max. Tolerance	11. Weight		
1.0%		1.8		
12. Needed Artifacts an	nd Data Elements			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost}	FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_ty FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc FF03_{cost}_[M]_ACWPc		
13. Assumptions				
ACWPs are collected at the	WP level. If ACWPs are collected at th	ne CA level, test needs to be co	onducted at CA level.	
14. Instructions				
Determine Y items based on Sum FF03_{cost}_[D]_WBS • FF03_{cost}_[G]_WBS_tyr • FF03_{cost}_[E]_EOC <> • FF03_{cost}_[L]_BCWPc = • Sum abs(FF03_{cost}_[L]_	by FF03_{cost}_[E]_EOC items and, i pe = WP material or overhead = FF03_{cost}_[K]_DB	f identified, with the following c	haracteristics.	Y qualifier WBS type EOC other 1 sum
Determine X items, a subset Identify FF03_{cost}_[D]_WB • FF03_{cost}_[M]_ACWPc Sum flagged items based on • abs(FF03 {cost} [L] BCW	as and, if identified, with the following <= 0 the following operation(s).	characteristics.		X qualifier other 2 qualifier operation
Determine if X or X/X exceed	,			

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 29, Intent: "Accumulate direct costs in the formal accounting system in a manner consistent with the way the related work is planned and budgeted."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE	EVMS Me	tric Speci	fication	
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
D	D.03.06	(16.04.01) (112)	automated	monthly	
5. Attribute					
Recording Direct Costs to Co	ontrol Accounts (CA	s) and/or Work Pack	ages (WP)		
6. Metric Intent					
	r value of the CA o			s were established and, at a minimum, by n-material direct EOC BCWPc = BAC (or ⁻	
7. Metric Short Descript	tion				
A without P (incremental) nor	n-material/overhead	d completed			а
8. Metric					
X = \$ total of direct non-ma	terial WP WBS ab	s(ACWPi) in the EV	MS cost tool, where	WBS is complete and BCWPi <= 0.	
Y = \$ total of direct non-ma Conduct at the CA level if A			MS cost tool.		
9. Max. Threshold	10. Max. 1	Folerance	11. Weight		
1000	1		1.8		
12. Needed Artifacts an	d Data Element	ts			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost}	•	FF data elements FF03_{cost}_[B]_C FF03_{cost}_[C]_p FF03_{cost}_[D]_V FF03_{cost}_[E]_E FF03_{cost}_[G]_V FF03_{cost}_[K]_L FF03_{cost}_[L]_ir FF03_{cost}_[L]_B FF03_{cost}_[M]_i	period_date VBS EOC VBS_type 0B nc_BCWP_dollars CWPc	
13. Assumptions					
ACWPs are collected at the V	WP level. If ACWP	s are collected at the	CA level, test needs	to be conducted at CA level.	

14. Instructions

Determine Y items based on the following.	Y
Sum FF03 {cost} [D] WBS items and, if identified, with the following characteristics.	qualifier
 FF03_{cost}_[G]_WBS_type = WP 	WBS type
 FF03_{cost}_[E]_EOC <> material or overhead 	EOC
 Sum abs(FF03_{cost}_[M]_inc_ACWP_dollars) 	sum
Determine X items, a subset of Y, based on the following.	x
Identify FF03_{cost}_[D]_WBS and, if identified, with the following characteristics.	qualifier
 FF03_{cost}_[L]_inc_BCWP_dollars <= 0 where FF03_{cost}_[B]_CPP_status_date = FF03_{cost}_[C]_period_date 	other 1
 FF03_{cost}_[L]_BCWPc = FF03_{cost}_[K]_DB 	other 2
Sum flagged items based on the following operation(s).	qualifier
 abs(FF03_{cost}_[M]_inc_ACWP_dollars) where FF03_{cost}_[B]_CPP_status_date = FF03_{cost}_[C]_period_date 	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 29, Intent: "At a minimum, actual costs are collected at the control account level to enable summarization of cost by both the WBS and OBS.

Page 29, Typical Attributes: "Contractor's accounting manual/procedures identifying the methodology of handling various actual costs.

Page 29, Intent: "Accumulate direct costs in the formal accounting system in a manner consistent with the way the related work is planned and budgeted."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE		tric Specifica	ation	
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
D	D.04.01	(17.01.01) (113)	automated	monthly	
5. Attribute					
Direct Cost Breakdown Sumr	mary				
6. Metric Intent					
This metric identifies the cour	nt of occurrences w ame period and for	here the sum of the each CA. The metric	children ACWP for the curr dentifies the count of occ	CA to two or more higher-level rent period and for each CA doe urences where the sum of the A period.	s not equal the
7. Metric Short Descript	tion				
EVMS cost tool ACWP <> IP	MR F1 ACWP (incr	emental)			а
8. Metric					
X = Number of CA WBSs in 1. At the CA level, the EVM 2. At the project level, the E	S cost tool \$ total	ACWPi <> IPMR F1			
Y = Number of CA WBSs in	the EVMS cost to	ol.			
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0	1000		1.2		
12. Needed Artifacts an	d Data Element	s			
<u>Y artifact(s)</u> FF01_{WBS} FF03_{cost}	<u>X artifact(s)</u> FF08_{IPMR	₹_F1}	FF data elements FF01_{WBS}_[C]_WBS FF03_{cost}_[B]_CPP_s FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_ FF03_{cost}_[M]_inc_A FF08_{IPMR_F1}_[C]_V FF08_{IPMR_F1}_[F]_ir	status_date FF03_{cost}_[C]_pe type CWP_dollars VBS	riod_date
13. Assumptions					
14. Instructions					
Determine Y items based on	the following.				Y
Count FF01_{WBS}_[C]_WB FF03_{cost}_[G]_WBS_typ		WBS per CA items a	and, if identified, with the fo	ollowing characteristics.	qualifier WBS type
Determine X items, a subset					x
Identify FF08_{IPMR_F1}_[C]		[D]_WBS and, if ide	entified, with the following o	characteristics.	qualifier
 FF03_{cost}_[G]_WBS_typ 					other 1 other 2
 FF03_{cost}_[B]_CPP_sta Count flagged items based or 			e		qualifier
	in the following oper	au011(5).			operation

• by CA

 by CA FF03_{cost}_[M]_inc_ACWP_dollars sum <> FF08_{IPMR_F1}_[F]_inc_ACWP sum OR by project FF03_{cost}_[M]_inc_ACWP_dollars sum <> FF08_{IPMR_F1}_[F]_inc_ACWP sum Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 30, Management Value: "The WBS roll-up structure contains no division/allocation of lower-level cost to multiple higher-level WBS elements, which helps to ensure performance measurement data integrity when summarized by WBS."

Page 30, Intent: "Through the use of this coding structure, allowable costs collected within the control account by element of expense roll-up from the control account level through the WBS to the top level without being divided among two or more higher-level WBS elements. Cost collection accounts map to the WBS, and the WBS roll-up structure contains no division/allocation of lower-level cost to multiple higher-level WBS elements."

16. Revision Block

operation

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS	Metric	Specification
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	202			
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
D	D.04.02	(18.01.01) (114)	automated	monthly
5. Attribute				
Direct Cost Breakdown Summ	nary			
6. Metric Intent				
higher-level OBS elements. T	he OBS must not a nation. This metric	Illocate the same cos dentifies the count o	sts to multiple OBS eleme f occurrences where the s	without allocation of a single CA to two or mor nts to maintain the integrity of the performanc sum of the ACWP at the CA level for the curre
7. Metric Short Descript	ion			
EVMS cost tool ACWP <> IPM	MR F2 ACWP (cum	nulative)		â
8. Metric				
X = Number of CA OBSs in t	the EVMS cost too	ol, where EVMS cos	t tool \$ total ACWPc <>	IPMR F2 ACWPc.
Y = Number of CA OBSs in t	the EVMS cost too	ol.		
9. Max. Threshold	10. Max. T	olerance	11. Weight	
0	1000		1.2	
12. Needed Artifacts and	d Data Element	S		
	<u>X artifact(s)</u> FF03_{cost} FF09_{IPMR	L_F2}	<u>FF_data_elements</u> FF03_{cost}_[L]_BCWF FF03_{cost}_[M]_ACW FF09_{IPMR_F2}_[I]_c	Pc
13. Assumptions				
14. Instructions				
Determine X items, a subset of	of Y, based on the	following.		x
 FF03_{cost}_[L]_BCWPc > 	0	-		other 1
Sum flagged items based on t	0.	()		qualifier
 FF03_{cost}_[M]_ACWPc 		2}_[I]_cum_ACWP		operation
Determine if X or X/Y exceeds	s the threshold.			
AE Defense a(a)				

15. Reference(s)

Page 32, Management Value: "Cost collection accounts mapped to the OBS, and the OBS roll-up structure containing no division/allocation of lower-level cost to multiple higher-level OBS elements, helps to ensure performance measurement data integrity when it is summarized by OBS."

Page 32, Intent: "Allowable costs collected within the control account by element of expense "roll-up", from the control account level through the OBS, to the top level without being divided at any level among two or more higher-level elements."

Page 32, Typical Attribute(s): "Established project charge numbers to ensure actual costs are collected so that direct comparison with associated budgets can be made at the appropriate organizational level(s)."

16. Rev	ision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DUE		tric Specif	Ication	
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
E	E.01.01	(04.01.01) (115)	manual	annually	
5. Attribute					
Indirect Account Organization	Structure				
6. Metric Intent					
responsibilities, and authority, examination of the disclosure	and how indirect bus statement to identify get pool; and determ	dgets established, each cost pool; ob	and cost expenditures staining the indirect but	rre, the indirect manager's assignments, are controlled. This metric includes an dgets for each pool; identifying the personne he pools and the organizations responsible	
7. Metric Short Descripti	on				
disclosure statement indirect b	oudgets unsubstantia	ated			
8. Metric					
at a senior management leve	el, annot demonstrate policy, or	for all levels evide	ence on whether an i	or the management of the resources, typi tem is a direct change, indirect, or a capi	
9. Max. Threshold	10. Max. To	lerance	11. Weight		
0			1.2		
12. Needed Artifacts and	d Data Elements				
	X artifact(s) disclosure stat proposed chan organization ch indirect budget data presentec manager	nart pools			
13. Assumptions	-				
-					

14. Instructions

Conduct the following manual operation(s).

· Number of indirect budgets for each pool in the disclosure statement, where

1. The contractor manager is not identified,

2. The budgets are not consistent with the pools and the organizations responsible for the management of the resources,

typically at a senior management level,

3. The contactor manager cannot demonstrate for all levels evidence on whether an item is a direct change, indirect, or a capital item, and who approves the policy, or

4. There are draft proposed changes to the disclosure statement.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 8, Typical Attribute(s) (A1): "Indirect account structure and organizational assignment/authority level are clearly defined."

Page 8, Typical Attribute(s) (A2): "Documented process clearly defines: How indirect cost resources are assigned, budgets are established, and expense is controlled. The personnel within the organization responsible for establishing indirect cost budgets and authorizing/controlling indirect cost expenditures."

Page 8, Intent: "Clearly identify managers who are assigned responsibility and authority for controlling indirect costs, and who have the authority to approve expenditure of resources."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

manual

operation

				li)
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
Ξ	E.02.01	(13.01.01) (116)	manual	annually
5. Attribute				
ndirect Budget Management				
6. Metric Intent				
and current rates to include a	pproved, provision	al, and proposed rate	usage. This metric ve	procert with the contractor's documented proces rifies the contractor has recurring DOE rate provided by the indirect manager.
7. Metric Short Descript	ion			
indirect process in not place				
8. Metric				
3. The contractor does not I N/A		-		., ,
9. Max. Threshold	10. Max. T	olerance	11. Weight	
0			1.6	
12. Needed Artifacts and	d Data Element	S		
	<u>X artifact(s)</u> DOE or cont performance data present			
13. Assumptions				
14. Instructions				
Conduct the following manual	operation(s).			manual
1. The contractor has not contractor business				: considering when it was last revised.

3. The contractor does not have a process for indirect management regarding budging, actuals, and analysis.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 24, Intent: "Indirect budgets on the project are established and planned with the established direct budgets consistent with the method by which allocation of indirect costs will ultimately be made to the project."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

 $\mathbf{\overline{X}}$

1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency
E	E.02.02	(13.01.02) (117)	automated/manual	annually
5. Attribute				
Indirect Budget Management				
6. Metric Intent				
	proved, provisional,	and proposed rate	usage. This metric identifies	with the contractor's documented process the count of instances where the rate list or both BL and FC plans.
7. Metric Short Description	on			
rates <> EVMS cost tool table	or BL IMS or FC IM	Ss		
8. Metric				
X = Number of rates (sample rate table, the BL IMS rate (sa				ble rate does not match EVMS cost to
Y = Number of rates (sample	size) in the accour	nting rate table.		
9. Max. Threshold	10. Max. To	lerance	11. Weight	
5.0%			1.6	
12. Needed Artifacts and	Data Elements			
<u>Y artifact(s)</u> FF20_{rates}	<u>X artifact(s)</u> EVMS cost tab xer BL xer FC	le	FF data elements FF20_{rates}_[C]_WBS FF20_{rates}_[D]_resource FF20_{rates}_[E]_burden_ FF20_{rates}_[F]_FY FF20_{rates}_[H]_rate FF20_{rates}_[I]_EOC	
13. Assumptions				
Sampling of activities should in	clude representatio	n of all the resourc	e pools.	
14. Instructions				

Determine Thems based on the following.	
Count FF20_{rates}_[D]_resource_ID per FF20_{rates}_[C]_WBS items and, if identified, with the following characteristics.	qualifier
 FF20_{rates}_[E]_burden_ID <> null 	other 1
Determine X items, a subset of Y, based on the following.	x
Manually count flagged items based on the following operation(s).	qualifier
• Rates (sample size) in the accounting rate table, where the accounting rate table rate does not match EVMS cost tool rate table, the BL schedule rate (sample activities), or the FC schedule rate (sample activities).	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 24, Intent: "Indirect budgets on the project are established and planned with the established direct budgets consistent with the method by which allocation of indirect costs will ultimately be made to the project."

16.	Revision	Block

description of change and sections affected	date prepared	prepared by	date approved	approved by
Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank
	Updated for release. See track changes. Updated for release. See itemized revision list. Updated for release. None. Updated through 2019-03-13. Minor corrections.	Updated for release. See track changes.2022-01-21Updated for release. See itemized revision list.2020-02-10Updated for release. None.2019-07-31Updated through 2019-03-13. Minor corrections.2019-03-13	Updated for release. See track changes.2022-01-21PM-30Updated for release. See itemized revision list.2020-02-10PM-30Updated for release. None.2019-07-31PM-30Updated through 2019-03-13. Minor corrections.2019-03-13PM-30	Updated for release. See track changes. 2022-01-21 PM-30 2022-01-21 Updated for release. See itemized revision list. 2020-02-10 PM-30 2020-02-10 Updated for release. None. 2019-07-31 PM-30 2019-07-31 Updated through 2019-03-13. Minor corrections. 2019-03-13 PM-30 2019-03-14

1. Process Category	2. Metric	D (new, old)	3. Method	4. Frequency
E	E.02.03	(13.01.03) (118)	automated/manual	annually
5. Attribute				
Indirect Budget Management				
6. Metric Intent				
and current rates to include a	oproved, provision	al, and proposed rate	e usage. This metric identifies	with the contractor's documented process the count of instances where the rates R based on highest dollar value.
7. Metric Short Descript	ion			
BCR rates <> EVMS cost tool	table			
8. Metric				
X = Number of BCRs (samp rates in the EVMS cost tool		nge control log, wh	ere rates used in BCRs at tl	he activity level do not match current
Y = Number of BCRs (samp Sample size of 25% of BCRs	,	0 0	value.	
9. Max. Threshold	10. Max. 1	olerance	11. Weight	
5.0%			1.6	
12. Needed Artifacts and	d Data Element	S		
<u>Y artifact(s)</u> FF11_{CC_log}	<u>X artifact(s)</u> FF20_{rates EVMS cost t xer BL xer FC	·	FF data elements FF11_{CC_log}_[C]_BCR_ FF11_{CC_log}_[D]_approv FF11_{CC_log}_[E]_BCR_d FF11_{CC_log}_[I]_BCR_d CPP-12_FF11_{CC_log}_[ved_date description lollars_delta
13. Assumptions				
14. Instructions				
Determine Y items based on t	he following.			Ŷ
Count FF11_{CC_log}_[C]_B	CR_ID items and,	f identified, with the f	ollowing characteristics.	qualifier
 FF11_{CC_log}_[D]_approv 	—		3]_CPP_status_date	other 1
• FF11_{CC_log}_[E]_BCR_0				other 2 other 3
 FF11_{CC_log}_[I]_BCR_d 	—			
Determine X items a subset o	of V hasad on the	following		Х

Determine X items, a subset of Y, based on the following.

Manually count flagged items based on the following operation(s).

 BCRs (sample size of 25% of BCRs in past year with highest dollar value) in the change control log, where rates used in BCRs at ^{operation} the activity level do not match current rates in the EVMS cost tool table.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 24, Intent: "Indirect budgets on the project are established and planned with the established direct budgets consistent with the method by which allocation of indirect costs will ultimately be made to the project."

16.	Revision	Block
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rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

				Series Series
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
E	E.03.01	(19.01.01) (119)	manual	initially & semi-annually to align with horizon planning increments
5. Attribute				
Record/Allocate Indirect Costs				
6. Metric Intent				
This metric confirms that indire occurrences where the indirect				statement. This metric identifies the count of re statement.
7. Metric Short Descripti	on			
indirect costs unsubstantiated				
8. Metric				
X = 1. The contractor cannot den	nonstrate their d	locumented proces	s for routinely reviewing	g indirect changes and errors are corrected.

- 2. The contractor cannot demonstrate their documented process for routinely reviewing indirect changes and errors are correct.
- N/A

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		1.4

12. Needed Artifacts and Data Elements

<u>X artifact(s)</u>
current year indirect budget by
cost element
report of charges to overhead
charge numbers
cost collection account structure
WBS/cost collection mapping
cost accounting standards
disclosure statement
data presented by contractor

13. Assumptions

14. Instructions

Conduct the following manual operation(s).

- 1. The contractor cannot demonstrate their documented process for routinely reviewing indirect changes and errors are corrected.
 - 2. The contractor's changes are not consistent with the budget categories in the disclosure statement.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 33, Intent: "Record all indirect costs for the project in the accounting system. Allocate them to the recorded direct costs per the documented procedure to ensure that all projects benefiting from the indirect costs will receive their fair share."

Page 33, Typical Attribute(s): "Cost accounting standards disclosure statement. Identifies the allocation base and indirect cost pools by functional element of cost."

16. Rev	ision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

manual operation

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
E	E.04.01	(24.01.01) (120)	manual	initially & semi-annually to align w planning increments	ith horizo
5. Attribute					
ndirect Variance Analysis					
6. Metric Intent					
This metric confirms that indire remedy issues. This metric de				and adequate corrective actions are rate pool.	e taken to
7. Metric Short Descripti	on				
VAR analysis or actions unsub	ostantiated				
8. Metric					
documented thresholds wer	e exceeded, or	-		dinate cost element levels includii n for potential rate changes, or	ng if
documented thresholds wer 2. The contractor does not ta 3. The contractor does not in	e exceeded, or ake actions to mit	igate significant va	riances or does not plar	rdinate cost element levels includin n for potential rate changes, or	ng if
documented thresholds wer 2. The contractor does not ta 3. The contractor does not in N/A	e exceeded, or ake actions to mit	igate significant va s for updating the y	riances or does not plar		ng if
documented thresholds wer 2. The contractor does not ta 3. The contractor does not in N/A	e exceeded, or ake actions to mit nplement process	igate significant va s for updating the y	riances or does not plar rear-end forecast.		ng if
documented thresholds wer 2. The contractor does not ta 3. The contractor does not ir N/A 9. Max. Threshold	e exceeded, or ake actions to mit nplement process 10. Max. T	igate significant va s for updating the y olerance	riances or does not plar rear-end forecast. 11. Weight		ng if
documented thresholds wer 2. The contractor does not ta 3. The contractor does not in N/A 9. Max. Threshold 0	e exceeded, or ake actions to mit nplement process 10. Max. T 1 Data Element <u>X artifact(s)</u> indirect cost	igate significant va s for updating the y olerance	riances or does not plar rear-end forecast. 11. Weight		ng if
documented thresholds wer 2. The contractor does not ta 3. The contractor does not in N/A 9. Max. Threshold 0	e exceeded, or ake actions to mit nplement process 10. Max. T 1 Data Element <u>X artifact(s)</u> indirect cost	s variance analyses	riances or does not plar rear-end forecast. 11. Weight		ng if
documented thresholds wer 2. The contractor does not ta 3. The contractor does not in N/A 9. Max. Threshold 0 12. Needed Artifacts and 13. Assumptions	e exceeded, or ake actions to mit nplement process 10. Max. T 1 Data Element <u>X artifact(s)</u> indirect cost	s variance analyses	riances or does not plar rear-end forecast. 11. Weight		ng if
documented thresholds wer 2. The contractor does not ta 3. The contractor does not in N/A 9. Max. Threshold 0 12. Needed Artifacts and 13. Assumptions 14. Instructions Conduct the following manual • 1. The contractor does not p	e exceeded, or ake actions to mit mplement process 10. Max. T d Data Element: <u>X artifact(s)</u> indirect cost data present operation(s).	s s for updating the y olerance s variance analyses ed by contractor	riances or does not plar rear-end forecast. 11. Weight 1.3		manual operation
documented thresholds wer 2. The contractor does not ta 3. The contractor does not in N/A 9. Max. Threshold 0 12. Needed Artifacts and 13. Assumptions 14. Instructions Conduct the following manual	e exceeded, or ake actions to mit mplement process 10. Max. T I Data Elements X artifact(s) indirect cost data presents operation(s). perform monthly va ere exceeded, or ake actions to mitig	ariance analysis at bo gate significant va s for updating the y olerance s	riances or does not plan rear-end forecast. 11. Weight 1.3 bth the pool and the subor nces or does not plan for p	n for potential rate changes, or	manual

15. Reference(s)

Page 40, Intent: "Indirect rate forecast and control are crucial to meeting project cost objectives. This guideline requires a monthly indirect cost analysis, by those assigned responsibility, comparing indirect budgets to indirect actual costs and explaining the cause of resultant variance(s)."

16. Revision Block

escription of change and sections affected	date prepared	prepared by	date approved	approved by
pdated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
pdated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
pdated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
pdated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
pdated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank
	odated for release. See track changes. odated for release. See itemized revision list. odated for release. None. odated through 2019-03-13. Minor corrections.	odated for release. See track changes.2022-01-21odated for release. See itemized revision list.2020-02-10odated for release. None.2019-07-31odated through 2019-03-13. Minor corrections.2019-03-13	odated for release. See track changes.2022-01-21PM-30odated for release. See itemized revision list.2020-02-10PM-30odated for release. None.2019-07-31PM-30odated through 2019-03-13. Minor corrections.2019-03-13PM-30	podated for release. See track changes. 2022-01-21 PM-30 2022-01-21 podated for release. See itemized revision list. 2020-02-10 PM-30 2020-02-10 podated for release. None. 2019-07-31 PM-30 2019-07-31 podated through 2019-03-13. Minor corrections. 2019-03-13 PM-30 2019-03-14

					1
1. Process Categor	y 2. Metric ID (new	w, old) 3. N	lethod	4. Frequen	cy
E	E.04.02 (24.	02.01) (121) man	ual	initially & semi-annually planning incre	/ to align with horiz ements
5. Attribute					
Indirect Variance Analy	sis				
6. Metric Intent					
	at indirect rate thresholds are es are established for VAR analysis			y. This metric determin	ies whether
7. Metric Short Des	cription				
indirect rate thresholds	unsubstantiated				
8. Metric					
X = The contractor's b	oudget officer cannot demonst	trate indirect rate th	resholds for each bu	dget and pool catego	ry were establish
N/A					
9. Max. Threshold	10. Max. Tolera	nce 11.	Weight		
0		1.3			
12. Needed Artifac	ts and Data Elements				
	<u>X artifact(s)</u> indirect cost variano indirect cost manag procedure data presented by o	gement			
13. Assumptions					
14. Instructions					manual
	nanual operation(s).				
Conduct the following n	nanual operation(s). get officer cannot demonstrate i	ndirect rate threshold	ls for each budget and	pool category were es	tablished. operation
Conduct the following n The contractor's budget 	get officer cannot demonstrate i	ndirect rate threshold	ls for each budget and	pool category were es	tablished. operation
Conduct the following n The contractor's bud Determine if X or X/Y e	get officer cannot demonstrate i	ndirect rate threshold	ls for each budget and	pool category were es	tablished. operation
Conduct the following n • The contractor's bud Determine if X or X/Y e 15. Reference(s)	get officer cannot demonstrate i		-	pool category were es	tablished. operation
Conduct the following n • The contractor's bud <u>Determine if X or X/Y e</u> 15. Reference(s) Page 40, Typical Attribu	get officer cannot demonstrate in xceeds the threshold.		-	pool category were es	tablished. operation
Conduct the following n • The contractor's bud <u>Determine if X or X/Y e</u> 15. Reference(s) Page 40, Typical Attribu 16. Revision Block	get officer cannot demonstrate in xceeds the threshold.		-	pool category were es date approved	tablished. operation
Conduct the following n • The contractor's bud Determine if X or X/Y e 15. Reference(s) Page 40, Typical Attribut 16. Revision Block rev. no. description of	get officer cannot demonstrate in <u>xceeds the threshold.</u> ute(s): "Variance thresholds by in	ndirect cost category	."		
Conduct the following n • The contractor's bud Determine if X or X/Y e 15. Reference(s) Page 40, Typical Attribu 16. Revision Block rev. no. description of V04.00 Updated for rel	get officer cannot demonstrate in xceeds the threshold. ute(s): "Variance thresholds by in change and sections affected	ndirect cost category date prepared	." prepared by	date approved	approved by
Conduct the following n • The contractor's bud Determine if X or X/Y e 15. Reference(s) Page 40, Typical Attribut 16. Revision Block rev. no. description of V04.00 Updated for rel	get officer cannot demonstrate in xceeds the threshold. ute(s): "Variance thresholds by in change and sections affected ease. See track changes. ease. See itemized revision list.	ndirect cost category date prepared 2022-01-21	" prepared by PM-30	date approved 2022-01-21	approved by Melvin Frank
Determine if X or X/Y er 15. Reference(s) Page 40, Typical Attribution 16. Revision Block rev. no. description of V04.00 Updated for rel V03.00 Updated for rel V02.00 Updated for rel	get officer cannot demonstrate in xceeds the threshold. ute(s): "Variance thresholds by in change and sections affected ease. See track changes. ease. See itemized revision list.	ndirect cost category date prepared 2022-01-21 2020-02-10	" prepared by PM-30 PM-30	date approved 2022-01-21 2020-02-10	approved by Melvin Frank Melvin Frank

. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
	F.01.01	(22.01.01) (122)	automated	monthly	
. Attribute					
alculating Variances					
. Metric Intent					
his metric confirms that the for nclude budget, earned value, a				ata produced by the accounting sy ting systems.	stem and
. Metric Short Description	n				
AR, EVMS cost tool <> IPMR I	F1				а
. Metric					
a = Number of CA WBSs in the	e EVMS cost to	ol, with incorrect va	ariance calculations.		
' = Number of CA WBSs in the	e EVMS cost to	ol.			
. Max. Threshold	10. Max. T	olerance	11. Weight		
0	1000		1.7		
2. Needed Artifacts and	Data Element	s			
<u>rartifact(s)</u> F03_{cost}	<u>X artifact(s)</u> FF03_{cost} FF08_{IPMR	₹_F1}	FF data elements FF03_{cost}_[B]_CPP_ FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS FF03_{cost}_[G]_WBS FF03_{cost}_[K]_inc_E FF03_{cost}_[L]_inc_E FF03_{cost}_[L]_inc_E FF03_{cost}_[M]_inc_F FF03_{cost}_[M]_inc_F FF03_{cost}_[N]_ETCC FF08_{IPMR_F1}[C] FF08_{IPMR_F1}[D] FF08_{IPMR_F1}[D] FF08_{IPMR_F1}[C] FF08_{IPMR_F1}[C]	s_type BCWS_dollars ACWP_dollars ACWP_dollars /Pc c WBS inc_BCWS inc_BCWS inc_ACWP cum_BCWS cum_BCWP bum_ACWP BAC	iod_date
3. Assumptions					
4. Instructions					
Determine Y items based on the Count FF03_{cost}_[D]_WBS ite FF03_{cost}_[G]_WBS_type =	ems and, if identi	fied, with the followir	g characteristics.		Y qualifier WBS type
Determine X items, a subset of Y dentify FF03_{cost}_[D]_WBS,F FF03_{cost}_[B]_CPP_status count flagged items based on th FF03_{cost}_[L]_inc_BCWP_ FF08_{IPMR_F1}_[D]_inc_BC OR FF03_{cost}_[L]_BCWPc - FF FF08_{IPMR_F1}_[G]_cum_E OR FF03_{cost}_[L]_BCWPc - FF FF08_{IPMR_F1}_[I]_cum_AC OR FF03_{cost}_[L]_BCWPc - FF FF08_{IPMR_F1}_[I]_cum_AC OR FF03_{cost}_[L]_BCWPc - FF FF08_{IPMR_F1}_[I]_cum_AC OR FF03_{cost}_[K]_DB - FF03 +	F08_{IPMR_F1} _date = FF03_{c he following oper dollars - FF03_{c WS dollars - FF03_{c WP 503_{cost}_[K]_E 3CWS 503_{cost}_[M]_A CWP	<pre>}_[C]_WBS and, if ide cost}_[C]_period_dat ration(s). cost}_[K]_inc_BCWS cost}_[M]_inc_ACWF COWSc <> FF08_{IPI</pre>	e for incremental operations _dollars <> FF08_{IPMR P_dollars <> FF08_{IPMR MR_F1}_[H]_cum_BCWF MR_F1}_[H]_cum_BCWF	on F1}_[E]_inc_BCWP - R_F1}_[E]_inc_BCWP - o _ D _	X qualifier other 1 qualifier operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 37, Typical Attribute(s): "Monthly performance report:

Budget, earned value, and actual costs (reconcilable with the accounting system).
Cost Variance (CV).
Schedule Variance (SV).
Variance at Completion (VAC)."

16. Rev	16. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank			
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank			
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank			
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank			
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank			

			•	(Instance)
1. Process Category	2. Metric ID (n	ew, old)	3. Method	4. Frequency
F	F.01.02 (2	2.02.01) (123)	automated/manual	monthly
5. Attribute				
Calculating Variances				
6. Metric Intent				
This metric confirms that BCV discrete WPs that have a repo				This metric identifies the count of incomplet /T methodology.
7. Metric Short Descript	ion			
BCWPi not consistent with bu	dget and EVT			1
8. Metric				
				rent reporting period BCWPi in the EVM sistent with the associated WP activity
Y = Number of incomplete in	n-progress discrete W	P WBSs in the	EVMS cost tool.	
9. Max. Threshold	10. Max. Toler	rance	11. Weight	
0			1.7	
12. Needed Artifacts and	d Data Elements			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost} FF04_{schedule} schedule and cos		FF data elements FF03_{cost}_[B]_CPP_sta FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_ty FF03_{cost}_[J]_EV_meth FF03_{cost}_[K]_inc_BCW FF03_{cost}_[K]_DB	od

13. Assumptions

14. Instructions

Determine Y items based on the following.	Y
Count FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics.	qualifier
 FF03_{cost}_[G]_WBS_type = WP 	WBS type
 FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB 	incomplete
 FF03_{cost}_[J]_EV_method <> A or J or K or NA 	EVT
 FF03_{cost}_[L]_BCWPc > 0 	other 1
 FF03_{cost}_[L]_inc_BCWP_dollar <> 0/null 	other 2
 FF03_{cost}_[K]_inc_BCWS_dollars <listing></listing> 	other 3
 FF03_{cost}_[B]_CPP_status_date = FF03_{cost}_[C]_period_date for incremental operation 	other 4
Determine X items, a subset of Y, based on the following.	x
Manually count flagged items based on the following operation(s).	qualifier
 FF03_{cost}_[L]_inc_BCWP_dollars is not consistent with FF03_{cost}_[K]_inc_BCWS_dollars and FF03_{cost}_[J]_EV_method OR 	operation

FF03_{cost}_L]_BCWPc FF03_{cost}_L]_inc_BCWP_dollars FF04_{schedule}_[K]_EV_method

FF03_{cost}_[L]_inc_BCWP_dollars is not consistent with FF04_{schedule}_[K]_EV_method in the FC schedule

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 37, Intent: "The intent of this guideline is to recognize that analysis must be accomplished on a regular, periodic basis. It is critical that the calculation of earned value (see guidelines 7 and 10) be based consistently with the manner used to establish the budgets (see guidelines 8, 10, and 12). This ensures a generation of valid variances for analysis purposes."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

I. Process Category - 5. Attribute /ariances to Control Accounts (2. Metric ID (new, old) F.02.01 (23.01.01) (124)	3. Method	4. Frequency
5. Attribute	1.02.01 (20.01.01) (121)	automated	monthly
	(CA)		
6. Metric Intent			
his metric confirms that CA co ddressed. This metric identifie		cost elements that breach rep	nce with internal thresholds and are orting threshold levels in accordance wit
. Metric Short Descriptio	n		
AR without narrative			1
8. Metric			
(= Number of incomplete CA	WBSs in the EVMS cost tool that	t tripped thresholds per CPP	upload, that do not have VAR narrativ
	WBSs in the EVMS cost tool that e and cost, incremental and cum		
). Max. Threshold	10. Max. Tolerance	11. Weight	
0		1.9	
2. Needed Artifacts and	Data Elements		
<u>′_artifact(s)</u> :F03_{cost} :F07_{IPMR_header}	<u>X artifact(s)</u> FF14_{CAM_VAR} FF15_{VAR_CA_LOG}	FF data elements FF03_{cost}_[B]_CPP_sta FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_ty FF03_{cost}_[G]_WBS_ty FF03_{cost}_[G]_WBS_ty FF03_{cost}_[K]_inc_BCV FF03_{cost}_[K]_BCWSc FF03_{cost}_[L]_BCWSc FF03_{cost}_[L]_inc_BCV FF03_{cost}_[L]_inc_BCV FF03_{cost}_[L]_BCWPc FF03_{cost}_[M]_inc_ACV FF03_{cost}_[M]_ACWPc FF07_{IPMR_header}_[AI FF07_{IPMR_header}_[AI FF07_{IPMR_header}_[AI FF07_{IPMR_header}_[AI FF14_{CAM_VAR}_[C]_W FF14_{CAM_VAR}_[C]_M FF14_{CAM_VAR}_[C]_M FF14_{CAM_VAR}_[E]_R FF14_{CAM_VAR}_[G]_IN FF14_{CAM_VAR}_[G]_IN FF14_{CAM_VAR}_[G]_IN FF14_{CAM_VAR}_[G]_IN FF14_{CAM_VAR}_[G]_IC FF14_{CAM_VAR}_[I]_CF FF14_{CAM_VAR}_[I]_CF FF14_{CAM_VAR}_[I]_CF FF14_{CAM_VAR}_[I]_CF FF14_{CAM_VAR}_[I]_CF FF14_{CAM_VAR}_[I]_CF FF14_{CAM_VAR}_LOG_[E FF15_{VAR_CA_LOG}_LOG_[C <td>VS_dollars VP_dollars VP_dollars (]_threshold_cum_dollar .]_threshold_inc_dollar V]_threshold_inc_dollar V]_threshold_inc_pct VBS C_CV C_SV the cost R_cost R_cost R_cost R_cost C_narrative C_WBS</td>	VS_dollars VP_dollars VP_dollars (]_threshold_cum_dollar .]_threshold_inc_dollar V]_threshold_inc_dollar V]_threshold_inc_pct VBS C_CV C_SV the cost R_cost R_cost R_cost R_cost C_narrative C_WBS
3. Assumptions			
4. Instructions			
Determine Y items based on the Count FE03 {cost} [D] WBS ite	<u>e following.</u> ems and, if identified, with the follow	ving characteristics	Y qualifier
FF03 {cost} [G] WBS type		nny onaraolonsilos.	WBS type
FF03_{cost}_[L]_BCWPc < F			incomple

abs(FF03_{cost}_[L]_bCWPc + FF03_{cost}_[K]_bD
 abs(FF03_{cost}_[L]_inc_BCWP_dollars - FF03_{cost}_[K]_inc_BCWS_dollars) > FF07_{IPMR_header}_[AM]_threshold_inc_dollar
 OR
 abs(FF03_{cost}_[L]_BCWPc - FF03_{cost}_[K]_BCWSc) > FF07_{IPMR_header}_[AK]_threshold_cum_dollar
 OR
 abs(FF03_{cost}_[L]_inc_BCWP_dollars / FF03_{cost}_[K]_inc_BCWS_dollars) > FF07_{IPMR_header}_[AN]_threshold_inc_pct
 OR
 abs(FF03_{cost}_[L]_BCWPc / FF03_{cost}_[K]_BCWSc) > FF07_{IPMR_header}_[AL]_threshold_cum_pct)
 OR
 abs(FF03_{cost}_[L]_inc_BCWP_dollars - FF03_{cost}_[M]_inc_ACWP_dollars) > FF07_{IPMR_header}_[AL]_threshold_cum_pct)

FF07_{IPMR_header}_[AM]_threshold_inc_dollar OR

abs(FF03_{cost}_[L]_BCWPc - FF03_{cost}_[M]_ACWPc) > FF07_{IPMR_header}_[AK]_threshold_cum_dollar OR ALL DE LA COLOR

abs(FF03_{cost}_[L]_inc_BCWP_dollars / FF03_{cost}_[M]_inc_ACWP_dollars) > FF07_{IPMR_header}_[AN]_threshold_inc_pct	
OR cha(EE02 (cost) [1] BCW/Pa (EE02 (cost) [M] ACW/Pa) > EE07 (IDMR booder) [A]] threshold cum not)	
abs(FF03_{cost}_[L]_BCWPc / FF03_{cost}_[M]_ACWPc) > FF07_{IPMR_header}_[AL]_threshold_cum_pct)	other 2
 FF03_{cost}_[B]_CPP_status_date = FF03_{cost}_[C]_period_date for incremental operation 	001012
<u>Determine X items, a subset of Y, based on the following.</u>	x
Identify FF14 {CAM VAR} [C] WBS,FF15 {VAR CA LOG} [E] WBS and, if identified, with the following characteristics.	qualifier
Count flagged items based on the following operation(s).	qualifier
• IF CV > threshold THEN	operation
(FF14 {CAM VAR} [D] RC CV = null	
FF14_{CAM_VAR}_[F]_impact_cost = null	
OR	
FF14_{CAM_VAR}_[H]_CR_cost = null)	
OR	
IF SV > threshold THEN	
(FF14_{CAM_VAR}_[E]_RC_SV = null	
OR	
FF14_{CAM_VAR}_[G]_impact_schedule = null OR	
FF14 {CAM VAR} [I] CR schedule = null)	
OR	
IF VAC > threshold THEN	
FF14 {CAM_VAR} [J] VAC narrative = null	
OR	
FF15_{VAR_CA_LOG}_[G]_CR_narrative = null	
Determine if X or X/Y exceeds the threshold.	

15. Reference(s)

Page 38, Management Value: "The ability to analyze deviations from the established plan permits management at all levels to rapidly and effectively implement corrective actions in an effort to regain project/contract objectives."

Page 38, Intent: "The purpose of this guideline is to ensure both significant schedule and cost variances are analyzed, at least monthly, at a level of detail required to manage the effort; i.e., to enable management decision-making and corrective action."

Page 38, Intent: "Only variances that have a significant impact on the execution of the project should be analyzed in detail. Project procedures defining thresholds are normally used to define the significant level applicable to that situation."

Page 38, Typical Attribute(s): "Variance causes and impacts are identified in sufficient detail needed for project management."

16. Rev	ision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

					The sures of
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
=	F.02.02	(23.01.02) (125)	automated/manual	monthly	
5. Attribute					
Variances to Control Accounts	(CA)				
6. Metric Intent					
				ce with internal thresholds and are ting threshold levels that do not ad	dress
7. Metric Short Description	on				
/AR inadequate				I	
8. Metric					
X = Number of incomplete CA applicable factoring the VAR			ripped thresholds, that do n	ot address the minimum conten	t as
Y = Number of incomplete CA Thresholds consider schedu				lar and percentage.	
9. Max. Threshold	10. Max. 1	Tolerance	11. Weight		
10.0%			1.9		
12. Needed Artifacts and	Data Element	ts			
<u>Y artifact(s)</u> FF03_{cost} FF07_{IPMR_header} FF14_{CAM_VAR} FF15_{VAR_CA_LOG}	<u>X artifact(s)</u> FF14_{CAM FF15_{VAR	L_VAR}	FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_typ FF03_{cost}_[K]_inc_BCWSc FF03_{cost}_[K]_BCWSc FF03_{cost}_[K]_BCWSc FF03_{cost}_[L]_BCWSc FF03_{cost}_[L]_inc_BCWPc FF03_{cost}_[M]_inc_ACWPc FF03_{cost}_[M]_ACWPc FF07_{IPMR_header}_[AL] FF07_{IPMR_header}_[AL] FF07_{IPMR_header}_[AM] FF07_{IPMR_header}_[AN] FF14_{CAM_VAR}_[C]_WE FF14_{CAM_VAR}_[D]_RC FF14_{CAM_VAR}_[J]_VAC FF14_{CAM_VAR}_[J]_VAC FF15_{VAR_CA_LOG}_[G] FF15_{VAR_CA_LOG}_[G]	S_dollars P_dollars P_dollars _threshold_cum_dollar _threshold_cum_pct]_threshold_inc_dollar _threshold_inc_pct 3S :_CV _SV C_narrative _WBS	
13. Assumptions					
14. Instructions					
Determine Y items based on th Count FF03_{cost}_[D]_WBS in FF03_{cost}_[G]_WBS_type FF03_{cost}_[L]_BCWPc < F (abs(FF03_{cost}_[L]_inc_B FF07_{IPMR_header}_[AM] AND abs(FE03_{cost}_[L]_BCW/P	= CA FF03_{cost}_[K]_ CWP_dollars - Fl threshold_inc_do	DB F03_{cost}_[K]_inc_E ollar			r qualifier NBS type ncomplete other 1
AND abs(FF03_{cost}_[L]_inc_BC FF07_{IPMR_header}_[AN]_	CWP_dollars / FF	03_{cost}_[K]_inc_B			
OR			{IPMR_header}_[AL]_threshol	d_cum_pct)	
(abs(FF03_{cost}_[L]_inc_B FF07_{IPMR_header}_[AM]_ AND	_threshold_inc_d	ollar	_ ,		
abs(FF03_{cost}_[L]_BCWP AND abs(FF03_{cost}_[L]_inc_BC FF07 {IPMR header} [AN]	CWP_dollars / FF	03_{cost}_[M]_inc_A	_{IPMR_header}_[AK]_threshc CWP_dollars) >	old_cum_dollar	

FF07_{IPMR_header}_[AN]_threshold_inc_pct

AND abs(FF03_{cost}_[L]_BCWPc / FF03_{cost}_[M]_ACWPc) > FF07_{IPMR_header}_[AL]_threshold_cum_pct)

 FF03_{cost}_[B]_CPP_status_date = FF03_{cost}_[C]_period_date for incremental operation 	other 2
• FF14 {CAM_VAR} [D] RC_CV <listing></listing>	other 3
 FF14_{CAM_VAR}_[E]_RC_SV <listing></listing> 	other 4
 FF14_{CAM_VAR}_[J]_VAC_narrative <listing></listing> 	other 5
 FF15_{VAR_CA_LOG}_[G]_CR_narrative <listing></listing> 	other 6
Determine X items, a subset of Y, based on the following.	x
Identify FF14_{CAM_VAR}_[C]_WBS,FF15_{VAR_CA_LOG}_[E]_WBS and, if identified, with the following characteristics.	qualifier
Manually count flagged items based on the following operation(s).	qualifier
 VARs considering the VAR quality checklist are questionable. 	operation
Determine if X or X/Y exceeds the threshold.	

15. Reference(s)

Page 38, Management Value: "The ability to analyze deviations from the established plan permits management at all levels to rapidly and effectively implement corrective actions in an effort to regain project/contract objectives."

Page 38, Intent: "The purpose of this guideline is to ensure both significant schedule and cost variances are analyzed, at least monthly, at a level of detail required to manage the effort; i.e., to enable management decision-making and corrective action."

Page 38, Intent: "Only variances that have a significant impact on the execution of the project should be analyzed in detail. Project procedures defining thresholds are normally used to define the significant level applicable to that situation."

Page 38, Typical Attribute(s): "Variance causes and impacts are identified in sufficient detail needed for project management."

16. Rev	ision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

			-	() Internet
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
F	F.02.03	(23.02.01) (126)	automated/manual verification	initially & semi-annually to align with horizo planning increments
5. Attribute				
Variances to Control Accounts	s (CA)			
6. Metric Intent				
This metric looks to ensure va the thresholds are meaningful				d VAC, and then looks to determine i
7. Metric Short Descript	ion			
VAR thresholds unsubstantiat	ted			a
8. Metric				
X = 1. CV, SV, and VAC thresho 2. CV, SV, and VAC thresho N/A			nce insights.	
9. Max. Threshold	10. Max. [•]	Tolerance	11. Weight	
0			1.9	
12. Needed Artifacts and	d Data Elemen	ts		
	<u>X artifact(s)</u> FF07_{IPMI VAR thresh		FF data elements FF07_{IPMR_header}_[B]_CPP_ FF07_{IPMR_header}_[AK]_thre FF07_{IPMR_header}_[AL]_thre FF07_{IPMR_header}_[AM]_thre FF07_{IPMR_header}_[AO]_thre FF07_{IPMR_header}_[AP]_thre	shold_cum_dollar shold_cum_pct eshold_inc_dollar eshold_inc_pct eshold_ACT_dollar
13. Assumptions				
14. Instructions				
Count flagged items based or • FF07_{IPMR_header}_[AK] OR FF07_{IPMR_header}_[AL] OR FF07_{IPMR_header}_[AM OR FF07_{IPMR_header}_[AN] OR	B_CPP_status the following ope _threshold_cum_ _threshold_cum_r]_threshold_inc_d]_threshold_inc_p	_date and, if identified eration(s). dollar <> null oct <> null ollar <> null ct <> null	l, with the following characteristics.	X qualifier qualifier operation
FF07_{IPMR_header}_[AO OR FF07_{IPMR_header}_[AP Conduct the following manual • 1. CV, SV, and VAC thresho 2. CV, SV, and VAC thresh		_pct <> null nented, or	e incidits	manual operation
		phate for performanc	ะ แอเนแร.	

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 38, Intent: "Only variances that have a significant impact on the execution of the project should be analyzed in detail. Project procedures defining thresholds are normally used to define the significant level applicable to that situation."

16. Revision Block						
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by	
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank	
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank	
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank	
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank	
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank	

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
F	F.03.01	(25.01.01) (127)	automated	quarterly
5 Attribute				

5. Attribute

Performance Measurement Information

6. Metric Intent

This metric confirms that performance measurement data is summarized through the project organization and WBS to support management needs and client reporting requirements. The metric identifies the count of occurrences for incomplete CAs WP and PP where the sum of the current period and cumulative BCWS, BCWP, ACWP, BAC, or EAC in the cost system does not equal the current period and cumulative BCWS, BCWP, ACWP, BAC, or EAC in the IPMR F1.

7. Metric Short Description

EVMS cost tool <> IPMR F1 CA WBS BCWSi/c, BCWPi/c, ACWPi/c, DB, EAC

8. Metric

X = Number of CAs in the EVMS cost tool, where EVMS cost tool BCWSi, BCWPi, ACWPi, BCWSc, BCWPc, ACWPc, DB, or EACc <> IPMR F1 BCWSi, BCWPi, ACWPi, BCWSc, BCWPc, ACWPc, DB, or EACc.

Y = Number of CAs in the EVMS cost tool.

Y = NUMBER OF CAS IN the E			
9. Max. Threshold	10. Max. Tolerance	11. Weight	
0	1000	2.1	
12. Needed Artifacts an	d Data Elements		
Y artifact(s) FF03_{cost}	<u>X artifact(s)</u> FF03_{cost} FF08_{IPMR_F1}	FF data elements FF03_{cost}_[B]_CPP_status_date FF03_{cost}_[C]_pd FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_inc_BCWS_dollars FF03_{cost}_[K]_BCWSc FF03_{cost}_[L]_inc_BCWP_dollars FF03_{cost}_[L]_inc_BCWP_dollars FF03_{cost}_[L]_BCWPc FF03_{cost}_[L]_BCWPc FF03_{cost}_[M]_inc_ACWP_dollars FF03_{cost}_[M]_ACWPc FF03_{cost}_[N]_ETCc FF08_{IPMR_F1}_[C]_WBS FF08_{IPMR_F1}_[C]_WBS FF08_{IPMR_F1}_[D]_inc_BCWP FF08_{IPMR_F1}_[F]_inc_ACWP FF08_{IPMR_F1}_[G]_cum_BCWS FF08_{IPMR_F1}_[H]_cum_BCWP FF08_{IPMR_F1}_[H]_cum_ACWP FF08_{IPMR_F1}_[L]_LO_LACWP FF08_{IPMR_F1}_[L]_LO_LACWP FF08_{IPMR_F1}_[L]_LO_LACWP FF08_{IPMR_F1}_[L]_LO_LACWP FF08_{IPMR_F1}_[L]_LO_LACWP FF08_{IPMR_F1}_[L]_LACWP FF08_{IPMR_F1}_[L]_LACWP FF08_{IPMR_F1}_[L]_LACWP FF08_{IPMR_F1}_[L]_LACWP FF08_{IPMR_F1}_[L]_LACWP FF08_{IPMR_F1}_[L]_LACWP	eriod_date
13. Assumptions			
14. Instructions			
Determine Y items based on Count FF03_{cost}_[D]_WBS • FF03_{cost}_[G]_WBS_typ Determine X items, a subset	per CA items and, if identified, with be = CA	the following characteristics.	Y qualifier WBS type X
Identify FF08_{IPMR_F1}_[C • FF03_{cost}_[B]_CPP_sta Count flagged items based o • FF03_{cost}_[K]_inc_BCW OR FF03_{cost}_[L]_inc_BCW OR FF03_{cost}_[M]_inc_ACW OR FF03_{cost}_[K]_BCWSc < OR FF03_{cost}_[L]_BCWPc < OR]_WBS per CA and, if identified, with tus_date = FF03_{cost}_[C]_period_ n the following operation(s). /S_dollars <> FF08_{IPMR_F1}_[D]_ /P_dollars <> FF08_{IPMR_F1}_[F]_ <> FF08_{IPMR_F1}_[G]_cum_BCW <> FF08_{IPMR_F1}_[H]_cum_BCW <> FF08_{IPMR_F1}_[I]_cum_ACW	_date for incremental operation _inc_BCWS _inc_BCWP _inc_ACWP VS /P	qualifier other 1 qualifier operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 41, Intent: "Since the WBS and the OBS exist as a formal and disciplined framework for project management and also provide a formal structure for the comprehensive roll-up of all data elements, they become the ideal framework for summarizing data from the control account level to the management reporting level. Summarizing performance information assists senior levels of management to focus on the significant problems that require their intervention."

Page 41, Typical Attribute(s): "Schedule and cost performance reports.

• Schedule variance, cost variance, and variance at completion from control account up through WBS/OBS reporting structure hierarchy to total program level.

• Management action plans. Corrective action plan/mitigation plan, task, milestones, exit criteria, and schedules."

16. Rev	ision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric II	D (new, old)	3. Method	4. Frequency
F	F.03.02	(25.01.02) (128)	automated	quarterly

5. Attribute

Performance Measurement Information

6. Metric Intent

This metric confirms that performance measurement data is summarized through the project organization and WBS to support management needs and client reporting requirements. The metric identifies the count of differences between the total dollar values for current and cumulative period BCWS, BCWP, ACWP, BAC, or EAC in the cost system and the total dollar values of the current and cumulative period BCWS, BCWP, ACWP, BAC, or EAC in the IPMR F1.

7. Metric Short Description

EVMS cost tool <> IPMR F1 project BCWSi, BCWPi, ACWPi

8. Metric

X = \$ total of project in the EVMS cost tool, where EVMS cost tool BCWSi, BCWPi, ACWPi, BCWSc, BCWPc, ACWPc, DB, or EACc <> IPMR F1 BCWSi, BCWPi, ACWPi, BCWSc, BCWPc, ACWPc, DB, or EACc.

N/A

N/A			
9. Max. Threshold	10. Max. Tolerance	11. Weight	
0	1000	2.1	
12. Needed Artifacts a	nd Data Elements		
	<u>X artifact(s)</u> FF03_{cost} FF08_{IPMR_F1}	FF data elements FF03_{cost}_[B]_CPP_status_date FF03_{cost}_[C]_period_date FF03_{cost}_[K]_nc_BCWS_dollars FF03_{cost}_[K]_DB FF03_{cost}_[L]_inc_BCWP_dollars FF03_{cost}_[L]_BCWPc FF03_{cost}_[L]_BCWPc FF03_{cost}_[M]_inc_ACWP_dollars FF03_{cost}_[M]_ETCc FF08_{IPMR_F1}_[B]_CPP_status_date FF08_{IPMR_F1}_[D]_inc_BCWS FF08_{IPMR_F1}_[E]_inc_BCWP FF08_{IPMR_F1}_[F]_inc_ACWP FF08_{IPMR_F1}_[G]_cum_BCWS FF08_{IPMR_F1}_[I]_cum_BCWP FF08_{IPMR_F1}_[I]_cum_BCWP FF08_{IPMR_F1}_[I]_cum_BCWP FF08_{IPMR_F1}_[I]_cum_ACWP FF08_{IPMR_F1}_[I]_BAC FF08_{IPMR_F1}_[K]_EAC	
3. Assumptions			
14. Instructions			
	t of Y, based on the following.		X
Identify FF03_{cost}_[B]_CP characteristics.	P_status_date,FF08_{IPMR_F1}_[B]	CPP_status_date and, if identified, with the following	qualifier
	atus_date = FF03_{cost}_[C]_period_	_date for incremental operation	other 1
Sum flagged items based or	01 ()		qualifier
 FF03_{cost}_[K]_inc_BCV OR 	VS_dollars <> FF08_{IPMR_F1}_[D]	_inc_BCWS	operation
FF03_{cost}_[L]_inc_BCV	VP_dollars <> FF08_{IPMR_F1}_[E]_	_inc_BCWP	
OR EE03 (cost) [M] inc. AC)	NP dollars <> FE08 /IPMR E1\ [F]		

FF03_{cost}_[M]_inc_ACWP_dollars <> FF08_{IPMR_F1}_[F]_inc_ACWP OR

FF03_{cost}_[K]_BCWSc <> FF08_{IPMR_F1}_[G]_cum_BCWS

OR FF03_{cost}_[L]_BCWPc <> FF08_{IPMR_F1}_[H]_cum_BCWP

OR

FF03_{cost}_[M]_ACWPc <> FF08_{IPMR_F1}_[I]_cum_ACWP OR

FF03_{cost}_[K]_DB <> FF08_{IPMR_F1}_[J]_BAC

OR FF03_{cost}_[M]_ACWPc + FF03_{cost}_[N]_ETCc <> FF08_{IPMR_F1}_[K]_EAC

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 41, Intent: "Since the WBS and the OBS exist as a formal and disciplined framework for project management and also provide a formal structure for the comprehensive roll-up of all data elements, they become the ideal framework for summarizing data from the control account level to the management reporting level. Summarizing performance information assists senior levels of management to focus on the significant problems that require their intervention."

Page 41, Typical Attribute(s): "Schedule and cost performance reports.

• Schedule variance, cost variance, and variance at completion from control account up through WBS/OBS reporting structure hierarchy to total program level.

• Management action plans. Corrective action plan/mitigation plan, task, milestones, exit criteria, and schedules."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 25.01.03 to 25.01.02.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric II	D (new, old)	3. Method	4. Frequency
F	F.03.03	(25.01.03) (129)	automated	quarterly

5. Attribute

Performance Measurement Information

6. Metric Intent

This metric confirms that performance measurement data is summarized through the project organization and WBS to support management needs and client reporting requirements. This metric identifies the count of differences where the sum of the current period and cumulative CA WP and PP for BCWS, BCWP, ACWP, BAC, or EAC in the cost system does not equal the current period and cumulative CA BCWS, BCWP, ACWP, BAC, or EAC in the IPMR F2.

7. Metric Short Description

EVMS cost tool <> IPMR F2 CA WBS BCWSi/c, BCWPi/c, ACWPi/c, DB, EAC

8. Metric

X = Number of CAs in the EVMS cost tool, where EVMS cost tool BCWSi, BCWPi, ACWPi, BCWSc, BCWPc, ACWPc, DB, or EACc <> IPMR F2 BCWSi, BCWPi, ACWPi, BCWSc, BCWPc, ACWPc, DB, or EACc

Y = Number of CAs in the EVMS cost tool.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0	1000	2.1
12. Needed Artifacts and D	ata Elements	
Y artifact(s) FF01_{WBS} FF03_{cost}	<u>X artifact(s)</u> FF03_{cost} FF09_{IPMR_F2}	FF data elements FF01_{WBS}_[H]_OBS FF03_{cost}_[B]_CPP_status_date FF03_{cost}_[C]_period_date FF03_{cost}_[G]_WBS_type FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_inc_BCWS_dollars FF03_{cost}_[K]_BCWSc FF03_{cost}_[K]_DB FF03_{cost}_[L]_inc_BCWP_dollars FF03_{cost}_[L]_BCWPc FF03_{cost}_[L]_BCWPc FF03_{cost}_[M]_ACWPc FF03_{cost}_[M]_ACWPc FF03_{cost}_[N]_ETCc FF09_{IPMR_F2}_[C]_OBS FF09_{IPMR_F2}_[D]_inc_BCWS FF09_{IPMR_F2}_[F]_inc_ACWP FF09_{IPMR_F2}_[G]_cum_BCWS FF09_{IPMR_F2}_[G]_cum_BCWS FF09_{IPMR_F2}_[I]_cum_BCWP FF09_{IPMR_F2}_[J]_BAC FF09_{IPMR_F2}_[K]_EAC
13. Assumptions		
14. Instructions		

Determine Y items based on the following.	Y
Count FF01_{WBS}_[H]_OBS in FF03_{cost} items and, if identified, with the following characteristics.	qualifier
 FF03_{cost}_[G]_WBS_type = CA 	WBS type
Determine X items, a subset of Y, based on the following.	x
Identify FF09_{IPMR_F2}_[C]_OBS by CA and, if identified, with the following characteristics.	qualifier
 FF03_{cost}_[B]_CPP_status_date = FF03_{cost}_[C]_period_date for incremental operation 	other 1
Count flagged items based on the following operation(s).	qualifier
 FF03_{cost}_[K]_inc_BCWS_dollars <> FF09_{IPMR_F2}_[D]_inc_BCWS 	operation
OR	
FF03_{cost}_[L]_inc_BCWP_dollars <> FF09_{IPMR_F2}_[E]_inc_BCWP OR	
FF03 {cost} [M] inc ACWP dollars <> FF09 {IPMR F2} [F] inc ACWP	
OR	
FF03_{cost}_[K]_BCWSc <> FF09_{IPMR_F2}_[G]_cum_BCWS	
OR	
FF03_{cost}_[L]_BCWPc <> FF09_{IPMR_F2}_[H]_cum_BCWP OR	
FF03_{cost}_[M]_ACWPc <> FF09_{IPMR_F2}_[I]_cum_ACWP	
OR	
FF03_{cost}_[K]_DB <> FF09_{IPMR_F2}_[J]_BAC	

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 41, Intent: "Since the WBS and the OBS exist as a formal and disciplined framework for project management and also provide a formal structure for the comprehensive roll-up of all data elements, they become the ideal framework for summarizing data from the control account level to the management reporting level. Summarizing performance information assists senior levels of management to focus on the significant problems that require their intervention."

Page 41, Typical Attribute(s): "Schedule and cost performance reports.

• Schedule variance, cost variance, and variance at completion from control account up through WBS/OBS reporting structure hierarchy to total program level.

• Management action plans. Corrective action plan/mitigation plan, task, milestones, exit criteria, and schedules."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 25.01.05 to 25.01.03.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric	Specification
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1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
F	F.04.01	(26.01.01) (130)	manual	monthly	
5. Attribute					
Management Analysis and Co	prrective Actions				
6. Metric Intent					
part of their decision-making.	This metric determ nation with CAMs	iines whether the con for monthly managen	tractor has established a	nformation (at least on a monthly basi documented business rhythm that join ng a combination of artifact review and	nṫly
7. Metric Short Descripti	ion				
monthly EVMS review unsubs	tantiated				
8. Metric					
X = The contractor's project with CAMs for management N/A	•		is an established busin	ess rhythm to monthly review EVMS	3 data
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0			2.6		
12. Needed Artifacts and	d Data Element	S			
	<u>X artifact(s)</u> monthly busi calendar data present	iness rhythm ied by contractor			
13. Assumptions					
14. Instructions					
Conduct the following manual	operation(s).				manual

The contractor cannot demonstrate there is an established business rhythm to monthly review EVM information with CAMs for management decision making.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 42, Intent: "Performance measurement data should be utilized by all levels of management to promote effective project execution. Because of this, the data produced by the earned value management system must be available to managers on a timely basis and must be of sufficient quality to ensure that effective integrated program management decisions can be made as a result of its analysis."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE	EVMS Me	tric Specifi	cation
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
F	F.04.02	(26.01.02) (131)	manual	monthly
5. Attribute				
Management Analysis and Co	rrective Actions			
6. Metric Intent				
	This metric deterr			d information (at least on a monthly basis) as a Iting from EVMS generated data and informatior
7. Metric Short Descripti	on			
EVMS use unsubstantiated				
8. Metric				
X = The contractor cannot d	emonstrate man	agement actions are	based on EVMS gene	erated data communicated to DOE.
N/A				
9. Max. Threshold	10. Max. '	Tolerance	11. Weight	
0			2.6	
12. Needed Artifacts and	l Data Elemen	ts		
		ource data)		
13. Assumptions				
14. Instructions				
Conduct the following manual The contractor cannot demo 	• • • • •	nent actions are base	d on EVMS generated o	manual data communicated to DOE.
Determine if X or X/Y exceeds	the threshold.			
15. Reference(s)				

Page 42, Intent: "Performance measurement data should be utilized by all levels of management to promote effective project execution. Because of this, the data produced by the earned value management system must be available to managers on a timely basis and must be of sufficient quality to ensure that effective integrated program management decisions can be made as a result of its analysis."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID (new, old)		3. Method	4. Frequency
F	F.04.03	(26.02.01) (132)	automated/manual	quarterly
5 Attributo				

5. Attribute

Management Analysis and Corrective Actions

6. Metric Intent

This metric confirms the implementation of corrective actions to reduce cost and/or schedule impacts include a completion schedule and the identification of person(s) responsible for executing the corrective action plan. This metric determines whether corrective actions are a result of cost and schedule VAR analysis.

7. Metric Short Description

VAR analysis or corrective actions unsubstantiated

8. Metric

X = Number of CA WBSs in the VAR analysis, where the contractor cannot demonstrate

1. An established corrective action process that includes documented description, reference to variance, responsibility, due date, forecast date, demonstrated actions to address variances or impacts, and risks updated or

2. The VAR corrective action log includes IPMR F5 (similar per the SD) corrective actions are up to date.

Y = Number of CA WBSs in the VAR analysis.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		2.6
12. Needed Artifacts and	Data Elements	
<u>Y artifact(s)</u> FF14_{CAM_VAR} FF03_{cost}	<u>X artifact(s)</u> FF14_{CAM_VAR} FF15_{VAR_CA_LOG} FF03_{cost} corrective action process corrective action log IPMR F5 SD data presented by contractor	FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF14_{CAM_VAR}_[C]_WBS FF14_{CAM_VAR}_[D]_RC_CV FF14_{CAM_VAR}_[E]_RC_SV FF14_{CAM_VAR}_[K]_CR_required FF15_{VAR_CA_LOG}_[C]_CR_ID FF15_{VAR_CA_LOG}_[C]_CR_narrative

13. Assumptions

14. Instructions Determine Y items based on the following. Count FF14_{CAM_VAR}_[C]_WBS,FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. qualifie WBS type FF03_{cost}_[G]_WBS_type = CA other 1 FF14_{CAM_VAR}_[D]_RC_CV <> null OR FF14 {CAM VAR} [E] RC SV <> null Determine X items, a subset of Y, based on the following. Identify FF15_{VAR_CA_LOG}_[E]_WBS and, if identified, with the following characteristics. qualifier FF15_{VAR_CA_LOG}_[C]_CR_ID <listing> other 1 other 2 FF15_{VAR_CA_LOG}_[G]_CR_narrative <listing> Manually count flagged items based on the following operation(s). The contractor cannot demonstrate

1. An established corrective action process that includes documented description, reference to variance, responsibility, due date, forecast date, demonstrated actions to address variances or impacts, and risks updated or

2. The VAR corrective action log includes IPMR F5 (similar per the SD) corrective actions are up to date.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 42, Management Value: "Earned value management information provides management with early insight into the extent of problems. Management action is required to mitigate the impacts on the project objectives."

Page 42, Intent: "Identify and implement corrective actions based on earned value variance analysis to achieve project objectives. Regular monitoring of the performance data helps keep the program within its cost and schedule baseline objectives."

Page 42, Intent: "For effective management control, the corrective actions should be identified at the appropriate level and then tracked to resolution and closure. A manager's assigned action should have sufficient authority and control over the resources to effectively implement the corrective action requirements."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1 Drogog Catanam	2 Matria		2 Mathad	
1. Process Category		(D (new, old) (27.01.01) (133)	3. Method automated	4. Frequency
	F.05.01	(27.01.01) (133)	automateu	monthly
5. Attribute				
Estimates at Completion (EA	C)			
6. Metric Intent				
				cy to provide identification of future cost occurrences for selected CAs where the
7. Metric Short Descript	tion			
EAC < ACWPc				а
8. Metric				
X = Number of CA WBSs in	the EVMS cost to	ol, where EVMS cos	st tool or IPMR F1 EAC <	EVMS cost tool ACWPc.
Y = Number of CA WBSs in	the EVMS cost to	ol.		
9. Max. Threshold	10. Max. 1	olerance	11. Weight	
0	1		2.6	
12. Needed Artifacts an	d Data Element	s		
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost} FF08_{IPMF		FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_ FF03_{cost}_[M]_ACWF FF03_{cost}_[N]_ETCc FF08_{IPMR_F1}_[K]_E	C C
13. Assumptions				
14. Instructions				
Determine Y items based on	the following.			Y
Count FF03_{cost}_[D]_WBS		ified, with the followin	g characteristics.	qualifier
 FF03_{cost}_[G]_WBS_typ 	be = CA			WBS type
Determine X items, a subset	of Y, based on the	following.		x
Identify FF03_{cost}_[D]_WB	, ,	0	aracteristics.	qualifier
Count flagged items based of • FF03_{cost}_[M]_ACWPc OR FF03_{cost}_[M]_ACWPc	> FF03_{cost}_[M]_	ACWPc + FF03_{cos	st}_[N]_ETCc	qualifier operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 43, Intent: "The control account managers are responsible for maintaining the control account level latest revised estimate to complete that is assessed on a monthly basis. Periodically, a comprehensive or bottom-up estimate at completion should be prepared using all available information to arrive at the best possible estimate at completion."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency
F	F.05.02	(27.01.02) (134)	automated/manual	monthly
5. Attribute				
Estimates at Completion (EAC)				
6. Metric Intent				
problems in time for possible corr	ective or prevent	ive actions. This m	ted with sufficient frequency to provi etric identifies the count of occurrent the monthly EAC is not maintained.	
7. Metric Short Description				
EAC unsubstantiated				I
8. Metric				
 X = Number of incomplete CA V 1. EAC is not maintained, 2. EAC does not factor perform 3. EAC does not factor potential 	ance or scope t	rends, or	e	
Y = Number of incomplete CA V	VBSs in the EVN	MS cost tool.		
9. Max. Threshold	10. Max. To	lerance	11. Weight	
5.0%			2.6	
12. Needed Artifacts and D	ata Elements			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> CA trend(s) dc	ocumentation	FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc FF03_{cost}_[M]_ACWPc FF03_{cost}_[N]_ETCc	
13. Assumptions				
14. Instructions				
Determine Y items based on the f Count FF03_{cost}_[D]_WBS item • FF03_{cost}_[G]_WBS_type = • FF03_{cost}_[L]_BCWPc < FF0 • FF03_{cost}_[M]_ACWPc + FF Determine X items, a subset of Y, Manually count flagged items bas • 1. EAC is not maintained, 2. EAC does not factor perform	ns and, if identifie CA 03_{cost}_[K]_DE 03_{cost}_[N]_E , <u>based on the fo</u> ed on the followi ance or scope tre	3 TCc <> 0/null <u>llowing.</u> ng operation(s).	g characteristics.	Y qualifier WBS type incomplete other 1 X qualifier operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 43, Intent: "The control account managers are responsible for maintaining the control account level latest revised estimate to complete that is assessed on a monthly basis. Periodically, a comprehensive or bottom-up estimate at completion should be prepared using all available information to arrive at the best possible estimate at completion."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID (I	new, old)	3. Method	4. Frequency	
F	F.05.03 (2	27.02.01) (135)	automated	monthly	
5. Attribute					
Estimates at Completion (EAC)					
6. Metric Intent					
This metric confirms that estima This metric identifies the count o		•		•	
7. Metric Short Descriptio	n				
ETC <= 0					а
8. Metric					
X = Number of incomplete WF	P, PP, and SLPP WE	Ss by EOC in th	e EVMS cost tool, that do n	ot have a time-phased ETC) .
Y = Number of incomplete WF	P, PP, and SLPP WE	Ss by EOC in th	e EVMS cost tool.		
9. Max. Threshold	10. Max. Tole	rance	11. Weight		
5.0%			2.6		
12. Needed Artifacts and	Data Elements				
Y artifact(s)	X artifact(s)				
	FF03_{cost}		FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc FF03_{cost}_[N]_ETCc	9	
FF03_{cost}			FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc	9	
Taulacies FF03_{cost} 13. Assumptions 14. Instructions			FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc	9	
FF03_{cost} 13. Assumptions 14. Instructions Determine Y items based on the Count FF03_{cost}_[D]_WBS by • FF03_{cost}_[G]_WBS_type	FF03_{cost} <u>e following.</u> y FF03_{cost}_[E]_E = WP or PP or SLPF	-	FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc FF03_{cost}_[N]_ETCc		Y qualifier WBS type incomplete
FF03_{cost}	FF03_{cost} FF03_{cost} y FF03_{cost}_[E]_E = WP or PP or SLPF F03_{cost}_[K]_DB Y, based on the follo by FF03_{cost}_[E]_I	wing. EOC and, if identi	FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc FF03_{cost}_[N]_ETCc	naracteristics.	qualifier WBS type

15. Reference(s)

Page 44, Typical Attribute(s): "Control account manager should generate the Estimate to Complete (ETC) at the work package and planning package level. The sum of the control account manager's work package and planning package ETCs are added to the control account actual cost to develop the control account EAC. Control account EACs are summarized through the WBS and OBS to the program and contract level."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric	Specification
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F F,05.05 (27.03.01) (136) automated/manual verification in annually S. Attribute S. Attribute S. Attribute S. Attribute Estimates at Completion (EAC) S. Marcine Internet in the CAC estimates of costs at completion are accurate, detailed, and an unembellished depiction of the cost of the project. This metric identifies the count of occurrences for selected incomplete WP, PP, and SLPP where the time-phased ETC in the cost of the project. This metric identifies the count of occurrences for selected incomplete WP, PP, and SLPP where the time-phased ETC in the cost of the project. This metric identifies the count of sole sole (Selecture). 7. Metric Short Description T ************************************	1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
S. Attribute Estimates at Completion (EAC) 6. Metric Intent This metric confinems that CA estimates of costs at completion are accurate, detailed, and an unembellished depiction of the cost of the project. This metric identifies the count of occurrences for selected incomplete WP, PP, and SLPP where the time-phased ETC in the cost system does not aligned to the time-phased resource plan (by craft). 7. Metric Short Description ************************************	F					
Estimates at Completion (EAC) e. Metric Intent This metric confirms that CA estimates of costs at completion are acurate. Idetailed, and an unembellished depiction of the cost of the project. This metric identifies the count of occurrences for selected incomplete VP, PP, and SLPP where the time-phased ETG in the cost system does not aligned to the time-phased resource plan (by carit). T. Metric Short Description TC Carity of incomplete PD and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool time-phased ETC units ~ FC IMS units. Y = Number of incomplete PD and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool time-phased ETC units ~ FC IMS units. Y = Number of incomplete PD and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool time-phased ETC units ~ FC IMS units. Y = Number of incomplete PD and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool time-phased ETC units ~ FC IMS units. Y = Number of incomplete PD and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool to 2.6 12. Acceded Artifacts and Data Elements FF03_(cost) [C]_period_date FF03_(cost) [C]_period_date FF03_(cost) [C]_period_date FF03_(cost) [C]_period_date FF03_(cost) [C]_schedule_type FF04_(schedule) [D]_task, D FF04_(schedule) [D]_task,	E Attribute		,,,,,		,	
6. Metric Intent This metric confirms that CA estimates of costs at completion are accurate, detailed, and an unembellished depiction of the cost of the project. This metric identifies the count of accurates for selected incomplete WP, PP, and SLPP where the time-phased ETC in the cost system does not aligned to the time-phased resource plan (by craft). 7. Metric Short Description ETC labor units, EVMS cost tool <> FC IMS * Metric St. Mumber of incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool. 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 2.6 12. Needed Artifacts and Data Elements FF03 [cost] [] period date FF03 [cost] [] period [] p						
This metric confirms that CA estimates of costs at completion are accurate, detailed, and an unembellished depiction of the cost of the project. This metric identifies the count of occurrences for selected incomplete WP, PP, and SLPP where the time-phased ETC in the cost system does not aligned to the time-phased tersource plan (by craft). 7. Metric Short Description * 8. Metric * X = Number of incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool time-phased ETC units or PC IMS units. * Y = Number of incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool time-phased ETC units or PC IMS units. * Y = Number of incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool. * 9. Max. Threshold 10. Max. Tolerance 11. Weight * 0 2.6 * * 11. Metric Sont [E] ECC FF03 (cost) [E] Cost [E] ECC * * FF03 (cost) [E] ECC FF03 (cost) [E] ECC FF03 (cost) [E] ECC * * FF03 (cost) [E] ECC FF03 (cost) [E] Eask [D] EF03 (sott) [E] ECC * * FF03 (cost) [E] ECC FF03 (cost) [E] ECC * * * FF03 (cost) [C] [Schedule] Erosci [E] Eask [D] EF0	1 ()					
project. This metric identifies the count of occurrences for selected incomplete WP, PP, and SLPP where the time-phased ETC in the cost system does not aligned to the time-phased resource plan (by craft). T. Metric Short Description TETC labor units, EVMS cost tool <> FC IMS # Number of Incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool time-phased ETC units <> FC IMS units. Y = Number of Incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool time-phased ETC units <> FC IMS units. Y = Number of Incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool time-phased ETC units <> FC IMS units. Y = Number of Incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool. M Max. Threshold 0 1.0 2.6 12.Needed Artifacts and D=± Elements FF03 (cost), IC) period date FF03 (cost), IC) period date FF03 (cost), IC) period date FF04 (schedule) [Schedule resources), IC (schedule r						
ETC labor units, EVMS cost tool <> FC IMS	project. This metric identifies the	count of occurre	ences for selected inc			
8. Metric 8. Metric 9. Max. Threshold 10. Max. Tolerance 11. Weight 10. Max. Tolerance 11. Weight 12. Meeded Artifacts and Data Elements FF03 (cost) (C) period date FF03 (cost) (C) period date FF04 (schedule) (C) task ID FF04 (schedule) (C) task ID FF04 (schedule) (C) task ID FF04 (schedule) (C) task ID FF03 (cost) (C) period date per FF03 (cost) (C) period date per FF04 (schedule) (C) task ID FF03 (cost) (C) period date per FF03 (cost) (C) period date per FF03 (cost) (C) period (schedule resources) [E] task (D FF03 (cost) (C) period date per FF03 (cost) (C) period date per FF03 (cost) (C) period date per FF04 (schedule) (C) task ID FF04 (schedule) [C] wBS type = WP or PP FF03 (cost) (C) period date per FF03 (cost) (C) period date per FF04 (schedule) (C) period (schedule per FF04 (schedule) (C) period (schedule per FF04 (schedule) (C) pe	7. Metric Short Description	1				
X = Number of incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool, where EVMS cost tool time-phased ETC units X = Number of incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool. 3. Max. Threeshold 10. Max. Tolerance 11. Weight 0 2.6 12. Needed Artifacts and Data Elements FF03 (cost) (D1 period date FF03 (cost) (D1 period date FF06 (schedule, resources) FF03 (cost) (D1 period date FF03 (cost) (D1 period date FF06 (schedule) FF03 (cost) (D1 period date FF03 (cost) (D1 period date FF03 (cost) (D1 period date FF03 (cost) (D1 period date FF03 (cost) (D1 period date FF06 (schedule) FF03 (cost) (D1 period date FF03 (cost) (D1 period date FF03 (cost) (D1 period date FF06 (schedule) FF03 (cost) (D1 period date FF03 (cost) (D1 p	ETC labor units, EVMS cost tool	<> FC IMS				а
time-phased ETC units <> FC IMS units. Y = Number of Incomplete PP and WP WBSs (only EOC labor) for the current period in the EVMS cost tool. 9. Max. Threshold 10. Max. Tolerance 11. Weight 0 2.6 12. Needed Artifacts and Data Elements FF03_(cost) X artifact(s) FF63_(cost) [C]_period_date FF03_(cost) FF03_(cost) [C]_Period_date [FF03_(cost]] [D]_WBS FF04_[schedule] MP Si Schedule_resources] FF03_(cost) [D]_WBS FF04_[schedule] [D]_stask. ID FF04_[schedule] [D]_stask. ID FF04_[schedule] [D]_stask. ID FF06_[schedule_resources] [E]_task. ID FF06_[schedule_resources] [C]_task. ID FF06_[schedule_resources] [C]_task. ID FF06_[schedule_resources] [C]_task. ID FF06_[schedule_resources] [C]_task. ID FF04_[schedule] [C]_task [D] = C Count fF03_(cost) [C]_period_date per FF03_[cost] [D]_task_ID, FF06_[schedule_resources] [E]_task. ID FF04_[schedule] [C]_task [D, FF04_[schedule] [D]_task_ID, FF06_[schedule_resources] [E]_task. ID FF04_[schedule] [C]_task [D, FF04_[schedule] [D]_task_ID, FF06_[schedule] resources] [E]_task. ID (T FF04_[schedule] [C]_task [D, FF04_[schedule] [D]_task_ID, FF06_[schedule] resources] [E]_task. ID (T FF04_[schedule] [C]_task [D, FF04_[schedule] [D]_task_ID, FF06_[schedule] resources] [E]_task. ID and, if identified, with the for i	8. Metric					
9. Max. Threshold 10. Max. Tolerance 11. Weight 0 2.6 12. Needed Artifacts and Data Elements F03. [cost]. [C] period, date FF03. [cost]. [C] period, date per FF04. [schedule]. [D] task. [D] FF06. [schedule]. [C] pariod, date per FF03. [cost]. [L] BCWPe FF06. [schedule]. [C] task. [D] FF03. [cost]. [L] BCWPe FF03. [cost]. [L] task. [D] FF06. [schedule]. [C] task. [D] FF03. [cost]. [C] task. [D] FF03. [cost]. [C] task. [D] FF03. [cost]. [C] task. [D] task. [D] FF06. [schedule]. [C] task. [D] task. [D] task. [D] FF06. [schedule]. [C] task. [D] task. [D] task. [D] FF06. [schedule]. [C] task. [D] task. [D] task. [D] FF06. [schedule]. [C] task. [D] task.	•		(only EOC labor) for	the current period in the EVMS c	ost tool, where EVMS co	ost tool
0 2.6 12. Needed Artifacts and Data Elements Yartifact(s) Xartifact(s) FF03_(cost) FF04_(schedule)_IO] Stake ID	Y = Number of incomplete PP a	nd WP WBSs ((only EOC labor) for	^r the current period in the EVMS c	ost tool.	
0 2.6 Statisticat sat DEFerents Y artifact(s) FF03_(cost) FF	9. Max. Threshold	10. Max. T	olerance	11. Weight		
Yartifact(s) Xartifact(s) FE data elements FF03_(cost) FF03_(cost)_[C]_period_date FF03_(cost) FF03_(cost)_[C]_period_date FF03_(cost)_[D]_WBS_PF FF03_(cost)_[D]_WBS_PF FF03_(cost)_[D]_WBS_PF FF03_(cost)_[D]_WBS_PF FF03_(cost)_[D]_BCDVPc FF03_(cost)_[D]_BCDVPc FF03_(cost)_[D]_VBS_VPP FF04_(schedule)_[D]_task_ID FF04_(schedule)_[D]_task_ID FF06_(schedule)_[C]_schedule_type FF03_(cost)_[C]_Period_date per FF06_(schedule]_resources)_[H]_EOC 14. Instructions Determine Y Items based on the following. (cost)_[C]_period_date per FF03_(cost]_[D]_WBS items and, if identified, with the following characteristics. FF03_(cost)_[C]_period_date per FF03_(cost]_[D]_WBS items and, if identified, with the following characteristics. uniter FF03_(cost)_[E]_EDCC Items items items Petermine X Items, a subset of Y, based on the following. x (cost)_[C]_period_date per FF04_(schedule]_[D]_task_ID,FF06_(schedule_resources}_[E]_task_ID) and, if identified, with the following characteristics. uniter Identify FF03_(cost)_[C]_period_date per FF04_(schedule]_F03_(cost)_[C]_period_date per imiter FF04_(sche	0			-		
Yartifact(s) Xartifact(s) FE data elements FF03_(cost) FF03_(cost)_[C]_period_date FF03_(cost) FF03_(cost)_[C]_period_date FF03_(cost)_[D]_WBS_PF FF03_(cost)_[D]_WBS_PF FF03_(cost)_[D]_WBS_PF FF03_(cost)_[D]_WBS_PF FF03_(cost)_[D]_BCDVPc FF03_(cost)_[D]_BCDVPc FF03_(cost)_[D]_VBS_VPP FF04_(schedule)_[D]_task_ID FF04_(schedule)_[D]_task_ID FF06_(schedule)_[C]_schedule_type FF03_(cost)_[C]_Period_date per FF06_(schedule]_resources)_[H]_EOC 14. Instructions Determine Y Items based on the following. (cost)_[C]_period_date per FF03_(cost]_[D]_WBS items and, if identified, with the following characteristics. FF03_(cost)_[C]_period_date per FF03_(cost]_[D]_WBS items and, if identified, with the following characteristics. uniter FF03_(cost)_[E]_EDCC Items items items Petermine X Items, a subset of Y, based on the following. x (cost)_[C]_period_date per FF04_(schedule]_[D]_task_ID,FF06_(schedule_resources}_[E]_task_ID) and, if identified, with the following characteristics. uniter Identify FF03_(cost)_[C]_period_date per FF04_(schedule]_F03_(cost)_[C]_period_date per imiter FF04_(sche	12. Needed Artifacts and D	ata Element	5			
FF03_(cost) FF03_(cost) FF03_(cost)_[C]_period_date FF03_(cost)_[C]_period_date FF03_(cost)_[C]_WBS FF03_(cost)_[C]_WBS FF03_(cost)_[C]_WBS FF03_(cost)_[C]_WBS_1Ype FF03_(cost)_[C]_BB FF03_(cost)_[C]_SDB FF03_(cost)_[C]_SDB FF03_(cost)_[C]_SDB FF03_(cost)_[C]_SDB FF03_(cost)_[C]_SDB FF03_(cost)_[C]_SDB FF03_(cost)_[C]_SDB FF03_(cost)_[C]_SCB FF04_{SChedule}_[D]_task_ID FF04_{SChedule}_[C]_SCB FF06_{SChedule}_resources_[C]_schedule_type FF04_{SChedule}_resources_[C]_schedule_type FF06_{SChedule}_resources_[C]_schedule_type FF03_{SCHEDULS}_SDB FF				FE data elements		
14. Instructions Y Determine Y items based on the following. Y Count FF03_(cost}_[C]_period_date per FF03_{cost}]_[D]_WBS items and, if identified, with the following characteristics. qualifier • FF03_{cost}_[G]_WBS_type = WP or PP WBS type • FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB	FF03_{cost}	FF06_{sched		FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc FF04_{schedule}_[C]_schedule_ty FF04_{schedule}_[D]_task_ID FF04_{schedule}_[G]_WBS FF06_{schedule_resources}_[C]_s	schedule_type task_ID	
Determine Y items based on the following. v Count FF03_{cost}_[C]_period_date per FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. qualifier VBS type FF03_{cost}_[G]_WBS_type = WP or PP WS type FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB	13. Assumptions					
Count FF03_{cost}_[C]_period_date per FF03_{cost}_[D]_WBS items and, if identified, with the following characteristics. qualifier • FF03_{cost}_[G]_WBS_type = WP or PP WBs type • FF03_{cost}_[L]_BCWPc < FF03_{cost}_[K]_DB	14. Instructions					
Identify FF03_{cost}_[C]_period_date per qualifier FF04_{schedule}_[G]_WBS,(FF04_{schedule}_[D]_task_ID,FF06_{schedule_resources}_[E]_task_ID) and, if identified, with the sch. type • FF04_{schedule}_[C]_schedule_type = FC, sch. type • FF06_{schedule_resources}_[C]_schedule_type = FC other 1 • Count flagged items based on the following operation(s). qualifier • FF03_{cost}_[C]_period_date for X <> FF03_{cost}_[C]_period_date for Y operation • Resource availability is questionable. operation	 Count FF03_{cost}_[C]_period_d FF03_{cost}_[G]_WBS_type = FF03_{cost}_[L]_BCWPc < FF 			and, if identified, with the following	characteristics.	qualifier WBS type incomplete
• FF04_{schedule}_[C]_schedule_type = FC, sch.type • FF06_{schedule_resources}_[C]_schedule_type = FC other 1 • FF06_{schedule_resources}_[H]_EOC = labor utilifier Count flagged items based on the following operation(s). qualifier • FF03_{cost}_[C]_period_date for X <> FF03_{cost}_[C]_period_date for Y operation Conduct the following manual operation(s). manual • Resource availability is questionable. operation	Determine X items, a subset of Y Identify FF03_{cost}_[C]_period_ FF04_{schedule}_[G]_WBS,(FF0	<u>, based on the f</u> date per		nedule_resources}_[E]_task_ID) and	I, if identified, with the	
Resource availability is questionable.	 FF04_{schedule}_[C]_schedull FF06_{schedule_resources}_[I FF06_{schedule_resources}_[I Count flagged items based on the FF03_{cost}_[C]_period_date f 	C]_schedule_ty H]_EOC = labor e following opera for X <> FF03_{	ation(s).	te for Y		other 1 qualifier operation
	e 1	()				operation

15. Reference(s)

Page 43, Intent: "For the monthly estimates to complete (ETC), the control account manager should review the status of the expended effort and the achievability of the forecast and significant changes briefed to program management. This analysis should focus on performance to date within the control account, an assessment of the effort to complete the remaining work, and an evaluation of the type and quantity of resources required to complete the effort. Issues, risks and opportunities should also be considered in this analysis. When updates are made to existing forecasts of the schedule and cost to complete, significant changes are briefed to program management. Prudent maintenance of the control account-level estimates at completion ensures that the EAC reflects a valid projection of project costs."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
F	F.05.06	(27.03.02) (137)	automated	monthly	
5. Attribute					
Estimates at Completion (EAC)					
6. Metric Intent					
This metric confirms that estima selected incomplete CA, WP, ar		•		ric identifies the count of occurrences for > 0.10.	
7. Metric Short Descriptio	n				
abs(CPlc – EAC TCPlc) > 0.1				а	
8. Metric					
X = Number of incomplete WP	WBSs in the E	VMS cost tool, whe	re abs(CPIc – EAC TCPI	c) > 0.1.	
Y = Number of incomplete WP Conduct at the CA level if ACM					
9. Max. Threshold	10. Max. T	olerance	11. Weight		
5.0%			2.6		
12. Needed Artifacts and	Data Element	S			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost}		FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWF FF03_{cost}_[M]_ACW FF03_{cost}_[N]_ETCc	Pc	
13. Assumptions					
ACWPs are collected at the WP	level. If ACWPs	are collected at the	CA level, test needs to be	conducted at CA level.	
14. Instructions					
Determine Y items based on the Count FF03_{cost}_[D]_WBS ite • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[L]_BCWPc < F Determine X items, a subset of Identify FF03_{cost}_[D]_WBS a Count flagged items based on th • abs(FF03_{cost}_[L]_BCWPc FF03_{cost}_[N]_ETCc) > 0.1	ems and, if identi = WP or CA whe F03_{cost}_[K]_[Y, based on the f and, if identified, he following oper c / FF03_{cost}_[re actuals are accou DB <u>following.</u> with the following cha ation(s).	nted aracteristics.	۲ qualifier WBS typ incompil x qualifier qualifier qualifier qualifier qualifier	lete
Determine if X or X/Y exceeds the	he threshold.				

15. Reference(s)

Page 43, Intent: "For the monthly estimates to complete (ETC), the control account manager should review the status of the expended effort and the achievability of the forecast and significant changes briefed to program management. This analysis should focus on performance to date within the control account, an assessment of the effort to complete the remaining work, and an evaluation of the type and quantity of resources required to complete the effort. Issues, risks and opportunities should also be considered in this analysis. When updates are made to existing forecasts of the schedule and cost to complete, significant changes are briefed to program management. Prudent maintenance of the control account-level estimates at completion ensures that the EAC reflects a valid projection of project costs."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
F	F.05.07	(27.03.03) (138)	automated/manual	quarterly	
5. Attribute					
Estimates at Completion (EA	C)				
6. Metric Intent					
	the count of occurr	ences for selected in	curate, detailed, and an unemb complete WP, PP, and SLPP v		
7. Metric Short Descrip	tion				
direct and indirect rates not o	correctly applied				I
8. Metric					
X = Number of incomplete not correctly applied to the			nple size) in the EVMS cost t	ool, where direct and indirec	t rates are
Y = Number of incomplete	PP, SLPP, and WP	WBSs by EOC (sar	nple size) in the EVMS cost t	ool.	
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0			2.6		
12. Needed Artifacts ar	nd Data Element	s			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> rate tables		FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc		
13. Assumptions					
14. Instructions					
Determine Y items based on	the following.				Y
	, _, ,_,	-	identified, with the following ch	aracteristics.	qualifier
 FF03_{cost}_[G]_WBS_ty FF03_{cost}_[L]_BCWPc - 					WBS type
Determine X items, a subset	of Y, based on the	following.			x
 Manually count flagged items WP, PP, and SLPP direct differences between cost s 	and indirect rates th	nat are not applied co	rrectly to the time-phased ETC	by EOC (sampling). Identify	qualifier
Determine if X or X/Y exceed	is the threshold	-			

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 43, Intent: "For the monthly estimates to complete (ETC), the control account manager should review the status of the expended effort and the achievability of the forecast and significant changes briefed to program management. This analysis should focus on performance to date within the control account, an assessment of the effort to complete the remaining work, and an evaluation of the type and quantity of resources required to complete the effort. Issues, risks and opportunities should also be considered in this analysis. When updates are made to existing forecasts of the schedule and cost to complete, significant changes are briefed to program management. Prudent maintenance of the control account-level estimates at completion ensures that the EAC reflects a valid projection of project costs."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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1. Process Category	2. Metric ID (I	new, old)	3. Method	4. Frequency	
F	F.05.08 (2	27.04.01) (139)	manual	annually	
5. Attribute					
stimates at Completion (EAC)					
6. Metric Intent					
	, considers rates, pro	ogrammatic risks	and opportunities, open r	I. This metric determines whether the naterial commitments, subcontractor k scope.	
7. Metric Short Descriptio	n				
innual comprehensive EAC uns	substantitated				
3. Metric					
status, or performance of rem 2. Is not supported by a BOE 3. Is not validated with indexe 4. Is not addressed in the follo	aining scope, or does not address s, as appropriate, o	s EOCs, r		essment of commitments, subcont	ractor
N/A					
9. Max. Threshold	10. Max. Tole	rance	11. Weight		
0			2.6		
12. Needed Artifacts and					
	<u>X artifact(s)</u> comprehensive I package and bac data presented b	kup			
13. Assumptions					
14. Instructions					
Conduct the following manual o	peration(s)				manual
 The latest annual comprehen 	sive EAC, that ules and assumptions aining scope, or does not address as, as appropriate, or	EOCs,	and opportunities, assessi	ment of commitments, subcontractor	operation
Determine if X or X/Y exceeds t	he threshold.				
15. Reference(s)					
account level are considered as	well as: rect performance to cope of work. for material to comp	date efficiency ad	chieved by performing org g work.	luded in the monthly evaluation at the ganizations for completed work and co	

• Estimating future conditions to derive the most accurate estimate at completion; e.g., projected rate changes, process improvements that may result in reduced costs, or other economic factors that may impact future costs."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE E	EVMS Me	tric Specific	ation	
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
G	G.02.02	(28.01.01) (140)	automated	monthly	
5. Attribute					
Incorporate Changes in a Timely M	lanner				
6. Metric Intent					
This metric confirms that authorize for PMB changes where the incorp	0	•	•	This metric identifies the count of oc proval date.	currences
7. Metric Short Description					
change implementation delayed					
8. Metric					
X = Number of approved change	s in the change	e control log, that	were not implemented	within 44 work days.	
Y = Number of approved change	s in the change	e control log.			
9. Max. Threshold	10. Max. To	lerance	11. Weight		
10.0%			2.3		
12. Needed Artifacts and Da	ita Elements				
<u>Y artifact(s)</u> FF11_{CC_log}	<u>X artifact(s)</u> FF11_{CC_log	}	<u>FF data elements</u> FF11_{CC_log}_[B]_Cl FF11_{CC_log}_[C]_B(FF11_{CC_log}_[D]_ap FF11_{CC_log}_[F]_im	CR_ID pproved_date	
13. Assumptions					
44 work days is approximately 60 o	calendar days.				
14. Instructions					
Determine Y items based on the fo Count FF11_{CC_log}_[C]_BCR_I • FF11_{CC_log}_[D]_approved_	D items and, if i	dentified, with the f	ollowing characteristics.		Y qualifier other 1
<u>Determine X items, a subset of Y,</u> Identify FF11_{CC_log}_[C]_BCR_ Count flagged items based on the	ID and, if identi following operat	fied, with the follow ion(s).	ing characteristics.		X qualifier qualifier
 (FF11_{CC_log}_[F]_implement: AND FF11_{CC_log}_[B]_CPP_status OR FF11_{CC_log}_[F]_implementa 	_ s_date - FF11_{(CC_log}_[D]_appro			operation
Determine if X or X/Y exceeds the	_	,_(_009)_[D]_d			

15. Reference(s)

Page 45, Intent: "Incorporate the work scope for authorized changes into the performance measurement BL in a documented, disciplined, and timely manner."

16. Rev	16. Revision Block								
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by				
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank				
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank				
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank				
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank				
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank				

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
G	G.02.03	(28.01.02) (141)	automated	monthly
5. Attribute				
Incorporate Changes in a Time	ly Manner			
6. Metric Intent				
This metric confirms that autho for PMB changes where emerg	0	•		This metric identifies the count of occurrer nin 44 work days.
7. Metric Short Description	on			
change implemented prior appr	oval or not imple	emented		
8. Metric				
X = Number of unapproved cl	hanges in the c	hange control log, th	nat were implemented w	vithin 44 work days.
Y = Number of unapproved cl	hanges in the c	hange control log.		
9. Max. Threshold	10. Max.	Tolerance	11. Weight	
10.0%			2.3	
12. Needed Artifacts and	Data Elemen	ts		
<u>Y artifact(s)</u> FF11_{CC_log}	<u>X artifact(s)</u> FF11_{CC_		<u>FF data elements</u> FF11_{CC_log}_[C]_B FF11_{CC_log}_[D]_a FF11_{CC_log}_[F]_in	pproved_date
13. Assumptions				
44 work days is approximately	60 calendar day	S.		
14. Instructions				
Determine Y items based on th Count FF11_{CC_log}_[C]_BCI • FF11_{CC_log}_[F]_impleme	R_ID items and,		ollowing characteristics.	Y qualifier other 1
Determine X items, a subset of Identify FF11_{CC_log}_[C]_B0 Count flagged items based on t • FF11_{CC_log}_[F]_impleme OR	CR_ID and, if ide the following ope	entified, with the follow eration(s).	-	X qualifie qualifie operatic
FF11_{CC_log}_[F]_impleme Conduct the following manual c • Verify manually.	_	null		manual operatic

15. Reference(s)

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Page 45, Intent: "Incorporate the work scope for authorized changes into the performance measurement BL in a documented, disciplined, and timely manner."

16. Rev	ision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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DOE EVMS N	Metric Spe	cification
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				comcat		and the second s
1. Process Category	2. Metric ID (new, old)	3. Method		4. Frequen	су
G	G.02.04	28.01.03) (142)	automated		monthly	
5. Attribute						
ncorporate Changes in a Timely	Manner					
. Metric Intent						
his metric confirms that authoriz or PMB changes where definitize	0	•		,	metric identifies the c	count of occurrences
. Metric Short Description						
IB distribution delayed						
. Metric						
X = The number of UB changes	in last 2 reportin	g periods in the	change contr	ol log, that we	re not distributed wi	thin 44 work days.
= The number of UB changes	in last 2 reportin	g periods in the	change contr	ol log.		
). Max. Threshold	10. Max. Tole	erance	11. Weigh	t		
0	1000		2.3			
2. Needed Artifacts and D	ata Elements					
<u>Y artifact(s)</u> FF12_{CC_log_detail} CPP-2_FF12_{CC_log_detail}	<u>X artifact(s)</u> FF12_{CC_log_ CPP-1_FF12_{ CPP-2_FF12_{(CC_log_detail}	FF12_{CC_ FF12_{CC_ FF12_{CC_ CPP-1_FF1 CPP-2_FF1 CPP-2_FF1	og_detail}_[D] og_detail}_[F] og_detail}_[I]_c og_detail}_[K] 2_{CC_log_det 2_{CC_log_det 2_{CC_log_det	trn_category credit_dollars	date
3. Assumptions						
4 work days is approximately 2 r reporting period flexibility.	eporting periods.					
4. Instructions						
Determine Y items based on the f Count FF12_{CC_log_detail}_[D] ne following characteristics. FF12_{CC_log_detail}_[F]_trn_ Sum FF12_{CC_log_detail}_[I]	_BCR_ID per CPP _category = UB	9-2_FF12_{CC_lo	g_detail}_[B]_0	CPP_status_da	te items and, if identif	Y ied, with ^{qualifier} other 1 sum
Determine X items, a subset of Y		owina.				x
dentify FF12_{CC_log_detail}_[D		-	e following cha	acteristics.		qualifier
FF12_{CC_log_detail}_[F]_trn_						other 1
Count flagged items based on the FF12_{CC_log_detail}_[K]_det 2 FF12 {CC log_detail} [K] o	oit_dollars + CPP-	I_FF12_{CC_log_			PP-	qualifier
Determine if X or X/Y exceeds the	—	(
5. Reference(s)						
Page 45, Intent: "Incorporate the mely manner."	work scope for aut	horized changes	into the perfor	mance measure	ement BL in a docume	ented, disciplined, an
6. Revision Block						
rev. no. description of change ar	nd sections affected	date pr	epared	prepared by	date approved	approved by
V04.00 Updated for release. See	track changes.	2022-0	01-21	PM-30	2022-01-21	Melvin Frank
V03.00 Updated for release. See	itemized revision list.	2020-0	02-10	PM-30	2020-02-10	Melvin Frank
V02.00 Updated for release. None	e.	2019-0	07-31	PM-30	2019-07-31	Melvin Frank
V01.01 Updated through 2019-03-	13. Minor correction			PM-30	2019-03-14	Melvin Frank
		0040	01 01	DM 20	0040 04 04	

V01.00 Updated for release. All.

2019-01-31

Melvin Frank

2019-01-31

PM-30

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1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency		
G	G.02.05	(28.01.04) (143)	automated/manual	annually		
5. Attribute						
Incorporate Changes in a Timely	y Manner					
6. Metric Intent						
	0		5	This metric identifies the count of occurrences emented in the same reporting period.		
7. Metric Short Descriptio	n					
contingency usage not documented						
8. Metric						
X = The number of DB LIB or	MP changes in	last 12 reporting pr	riode in the change con	trol log where usage of DOE schedule or		

X = The number of DB, UB, or MR changes in last 12 reporting periods in the change control log, where usage of DOE schedule or cost contingency (factoring AUW and NTE) was not appropriately reflected in the same reporting period documents including the contract modification, WAD, schedule, and EVMS cost tool.

Y = The number of DB, UB, or MR changes in last 12 reporting periods in the change control log.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		2.3
12. Needed Artifacts and Da	ata Elements	
<u>Y artifact(s)</u> FF12_{CC_log_detail} for last 12 CPPs	X artifact(s) CBB log change documentation contingency log	<u>FF data elements</u> FF12_{CC_log_detail}_[D]_BCR_ID FF12_{CC_log_detail}_[F]_trn_category FF12_{CC_log_detail}_[I]_credit_dollars FF12_{CC_log_detail}_[K]_debit_dollars
13. Assumptions		
14. Instructions		

Determine Y items based on the following.	Y
Count FF12_{CC_log_detail}_[D]_BCR_ID for last 12 CPPs items and, if identified, with the following characteristics.	qualifier
 FF12_{CC_log_detail}_[F]_trn_category = DB or UB or MR 	other 1
 FF12_{CC_log_detail}_[I]_credit_dollars + FF12_{CC_log_detail}_[K]_debit_dollars <> prior_CPP (FF12_{CC_log_detail}_[I]_credit_dollars + FF12_{CC_log_detail}_[K]_debit_dollars) 	other 2
Determine X items, a subset of Y, based on the following.	x
Manually count flagged items based on the following operation(s).	qualifier
 Usage of DOE schedule or cost contingency (factoring AUW and NTE) was not appropriately reflected in the same reporting period documents including the contract modification, WAD, schedule, and EVMS cost tool. 	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 45, Intent: "Incorporate the work scope for authorized changes into the performance measurement BL in a documented, disciplined, and timely manner."

16. Rev	vision Block					
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by	
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank	
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank	
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank	
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank	
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank	

	DOE	EVMS Me	tric Specifi	cation
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
G	G.02.06	(28.02.01) (144)	manual	monthly
5. Attribute				
Incorporate Changes in a Timely	Manner			
6. Metric Intent				

This metric confirms that for unpriced changes detailed planning is maintained for near-term work in the BL and remaining work scope being held in UB upon definitization is distributed to CAs, SLPPs, or MR. This metric determines whether the full scope of AUW is in the BL.

7. Metric Short Description

AUW partially implemented

8. Metric

X = The number of AUW changes in the change control log, where the full scope was not implemented in the BL or not detailed planned for the near-term work per the SD or NTE was not documented.

N/A

9. Max. Threshold	10. Max. Tolerance	11. Weight	
0		2.3	
12. Needed Artifacts ar	nd Data Elements		

X artifact(s) CBB log change documentation

13. Assumptions

14. Instructions

Conduct the following manual operation(s).

· AUW changes in the change control log, where the full scope was not implemented in the BL or not detailed planned for the near-operation term work per the SD or NTE was not documented.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 45, Intent: "For unpriced change order,...Near term effort should be planned and have budget in control accounts. Far term effort that cannot be reasonably planned in the near term may be planned in summary level planning packages or maintained in Undistributed Budget (UB). Until contractual definitization, the near-term work is continually planned. After definitization, any budget remaining in undistributed budget will be planned and budgeted within control accounts, summary level planning package packages, or management reserve, as soon as practical."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE E	VMS Me	tric Specificat	tion	
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
G	G.02.08	(32.01.01) (145)	automated	monthly	
5. Attribute					
Incorporate Changes in a Tim	ely Manner				
6. Metric Intent					
				tric identifies where there is a diff TAB value, and block 8.16 CBB/	
7. Metric Short Descripti	ion				
TAB, IPMR F1 <> IPMR F3					
8. Metric					
X = Number of TAB in the IP N/A	MR F1 <> CBB or TA	AB in the IPMR F	3.		
9. Max. Threshold	10. Max. Tol	erance	11. Weight		
0	1000		2.3		
12. Needed Artifacts and	d Data Elements				
	FF07_{IPMR_h FF10_{IPMR_F		FF07_{IPMR_header}_[B] FF07_{IPMR_header}_[AF FF07_{IPMR_header}_[AF] FF07_{IPMR_F3}_[B]_CPF FF10_{IPMR_F3}_[D]_cun FF10_{IPMR_F3}_[E]_inc_ FF10_{IPMR_F3}_[G]_inc_ FF10_{IPMR_F3}_[G]_inc_ FF10_{IPMR_F3}_[I]_inc_ FF10_{IPMR_F3}_[J]_inc_ FF10_{IPMR_F3}_[J]_inc_ FF10_{IPMR_F3}_[L]_inc_ FF10_{IPMR_F3}_[L]_inc_ FF10_{IPMR_F3}_[N]_inc_ FF10_{IPMR_F3}_[N]_inc_ FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR_F3}_[O]_inc_\\FF10_{IPMR	F1_8_f_MR_bgt F3_5_f_TAB P_status_date BCWS BCWS_M1 BCWS_M2 BCWS_M3 BCWS_M5 BCWS_P8 BCWS_P8 BCWS_P8 BCWS_P10 BCWS_P8 BCWS_P10 BCWS_PRJ_remaining	
13. Assumptions					
TAB = CBB + overrun					
14. Instructions					
characteristics. Count flagged items based on • FF07 {IPMR header} [AI]	[B]_CPP_status_dat the following operation F3 5 f TAB <> FF1	 e,FF10_{IPMR_F on(s). 0 {IPMR_F3} [D]		, if identified, with the following _F3}_[E]_inc_BCWS + _F3}_[H]_inc_BCWS_M3 +	X qualifier qualifier operation
FF10_{IPMR_F3}_[I]_inc_B FF10_{IPMR_F3}_[L]_inc_B	SCWS_M4 + FF10_{IF BCWS_P7 + FF10_{IF BCWS_P10 + FF10_	PMR_F3}_[J]_inc_ PMR_F3}_[M]_inc {IPMR_F3}_[P]_ir	BCWS_M5 + FF10_{IPMR_F _BCWS_P8 + FF10_{IPMR_ c_BCWS_PRJ_remaining +	⁻ 3}_[K]_inc_BCWS_M6 +	

VMC Matrie Creasification

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 53, Management Value: "By ensuring that budget and schedule revisions are documented and traceable, the integrity of the performance measurement baseline is maintained and can be verified. This provides control account managers with valid control account plans against which to execute and measure performance."

Page 53, Intent: "The performance measurement baseline should always reflect the most current plan for accomplishing the effort. Authorized changes must be promptly recorded in the system and incorporated into all relevant planning. Planning and authorization documents must be updated accordingly, prior to the commencement of new work."

16. Revision Block

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rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

			•	(i)
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency
G	G.02.09	(32.01.02) (146)	automated/manual verification	monthly
5. Attribute				
Incorporate Changes in a Tim	ely Manner			
6. Metric Intent				
	3B log value and the	previous period C	ented and traceable. This metric ide BB log value and the difference is ir	
7. Metric Short Descripti	ion			
CBB with contingency usage ι	unsubstantiated			а
8. Metric				
X = Number of current repor contingency.	ting period CBB <×	> prior reporting p	eriod CBB, where change is not	consistent with change in cost
N/A				
9. Max. Threshold	10. Max. To	lerance	11. Weight	
0	1000		2.3	
12. Needed Artifacts and	d Data Elements			
	<u>X artifact(s)</u> FF07_{IPMR_ CPP-1_FF07_ contingency lo	{IPMR_header}	<u>FF data elements</u> FF07_{IPMR_header}_[B]_CPP_ FF07_{IPMR_header}_[Y]_F1_6 CPP-1_FF07_{IPMR_header}_[N	_c_CBB
13. Assumptions				
14. Instructions				
Determine X items, a subset c	of Y, based on the fo	llowing.		x
Identify FF07_{IPMR_header}	[B]_CPP_status_d	ate and, if identified	d, with the following characteristics.	qualifier
Sum flagged items based on t	0 1	()		qualifier
 FF07_{IPMR_header}_[Y]_ 		P-1_FF07_{IPMR_	_header}_[Y]_F1_6_c_CBB	operation manual
Conduct the following manualChange is not consistent with the second /li>	• • • •	ontingency		operation
5	0	mingency.		
Determine if X or X/Y exceeds	s the threshold.			

15. Reference(s)

Page 53, Management Value: "By ensuring that budget and schedule revisions are documented and traceable, the integrity of the performance measurement baseline is maintained and can be verified. This provides control account managers with valid control account plans against which to execute and measure performance."

Page 53, Intent: "The performance measurement baseline should always reflect the most current plan for accomplishing the effort. Authorized changes must be promptly recorded in the system and incorporated into all relevant planning. Planning and authorization documents must be updated accordingly, prior to the commencement of new work."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
G	G.03.03	(14.02.01) (147)	automated	initially & semi-annually to align with horiz planning increments
5. Attribute				
Baseline Changes Reconciliation	on			
6. Metric Intent				
This metric confirms that the us differences between the MR bu			•	nined. This metric identifies the count of or the same period.
7. Metric Short Description	on			
MR, change control log <> IPM	R F1			
8. Metric				
X = Last 6 months of MR in th	ne change contro	ol log, where chang	e control log MR <> IPMR	F1 MR.
Y = Last 6 months of MR in th	ne change contro	ol log.		
9. Max. Threshold	10. Max. T	olerance	11. Weight	
0	1000		2.0	
12. Needed Artifacts and	Data Element	S		
<u>Y artifact(s)</u> FF07_{IPMR_header} CPP-5_FF07_{IPMR_header}	<u>X artifact(s)</u> FF07_{IPMR FF12_{CC_I		<u>FF data elements</u> FF07_{IPMR_header}_[E FF07_{IPMR_header}_[/ FF12_{CC_log_detail}_[I FF12_{CC_log_detail}_[I FF12_{CC_log_detail}_[I FF12_{CC_log_detail}_[I CPP-5_FF07_{IPMR_he	.FF_F1_8_f_MR_bgt 3]_CPP_status_date F]_trn_category]_credit_dollars_cum
13. Assumptions				
14. Instructions				
Determine Y items based on th Count FF07_{IPMR_header}_[[• FF07_{IPMR_header}_[B]_C	3]_CPP_status_d			
Determine X items, a subset of	Y, based on the	following.		x
Identify FF12_{CC_log_detail}_		-	l, with the following charact	eristics. qualifier
 FF12_{CC_log_detail}_[F]_tr Count flagged items based on t 				other 1 qualifier
 FF07_{IPMR_header}_[AF]_ FF12_{CC_log_detail}_[K]_d 	F1_8_f_MR_bgt	<> FF12_{CC_log_d	etail}_[l]_credit_dollars_cur	
Determine if X or X/Y exceeds	the threshold			

15. Reference(s)

Page 26, Management Value: "Unexpected work scope growth within the contract SOW, rates changes, or schedule slips are examples of situations that may make the amount of performance measurement budget assigned to an individual control account manager inadequate. This facilitates maintaining budgets for work accomplished and provides effective performance measurement data for management."

Page 26, Typical Attributes: Program control logs including:

• Management reserve (showing month end values; monthly sources and applications to control accounts; and current value)."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

		•	
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency
G	G.03.04 (28.03.01) (14	8) automated/manual	monthly
5. Attribute			
Baseline Changes Reconcilia	tion		
6. Metric Intent			
the count of occurrences for s	ncorporation of changes does not a selected incomplete WP with BAC cl n eliminated and, if so, regardless o	nanges from the prior month to de	d schedule variances. The metric identit termine whether historical cost and
7. Metric Short Descript	ion		
DB change unsubstantiated			1
8. Metric			
X = Number of incomplete V eliminated or without justifi		reporting period in the EVMS co	st tool, where historical variance wer
Y = Number of incomplete V	VP WBS DBs different from prior	reporting period in the EVMS co	st tool.
9. Max. Threshold	10. Max. Tolerance	11. Weight	
0	1	2.0	
12. Needed Artifacts an	d Data Elements		
<u>Y artifact(s)</u> FF03_{cost} CPP-1_FF03_{cost}	<u>X artifact(s)</u> BL change documentation SD	<u>FF data elements</u> FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWPc CPP-1_FF03_{cost}_[D]_W CPP-1_FF03_{cost}_[K]_Dt	BS
13. Assumptions			
14. Instructions			
Determine Y items based on t	the following.		Ŷ
, ,, ,_	,CPP-1_FF03_{cost}_[D]_WBS item	ns and, if identified, with the follow	0
 FF03_{cost}_[G]_WBS_typ 	e = WP		WBS type
 FF03_{cost}_[L]_BCWPc < 			incomplete
 FF03_{cost}_[K]_DB <> CF 	PP-1_FF03_{cost}_[K]_DB		other 1

Determine X items, a subset of Y, based on the following.

Manually count flagged items based on the following operation(s).Historical variance were eliminated or without justification.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 45 Intent: "Incorporating changes must not arbitrarily eliminate existing cost and schedule variances. Rate changes and economic price adjustments may be made as appropriate."

16. Rev	16. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by			
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank			
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank			
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank			
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank			
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank			

x

operation

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1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency
G	G.03.05 (29.01.01) (149) automated/manual	quarterly
5. Attribute			
Baseline Changes Reconciliat	ion		
6. Metric Intent			
	hanges are reconcilable to the prior es the count of occurrences for char		documentation was appropriately riod, to the BL in the current month plus t
7. Metric Short Descript	on		
BCWS change unsubstantiate	d in freeze period		1
8. Metric			
	C where current reporting period l tent with the SD or change proces		period BCWSi in the EVMS cost tool,
Y = Number of WBSs by EO	C where current reporting period	BCWSi <> prior month report	period BCWSi in the EVMS cost tool.
9. Max. Threshold	10. Max. Tolerance	11. Weight	
0		2.0	
12. Needed Artifacts and	d Data Elements		
<u>Y artifact(s)</u> FF03_{cost} CPP-1_FF03_{cost}	<u>X artifact(s)</u> CBB log change documentation SD	<u>FF data elements</u> FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[K]_inc_BCW RP+1_CPP-1_FF03_{cost} CPP-1_FF03_{cost}_[D]_\	t}_[K]_inc_BCWS_dollars
13. Assumptions			
14. Instructions			
Determine Y items based on t	he following.		Ŷ
characteristics.	by FF03_{cost}_[E]_EOC,CPP-1_F		-
	S_dollars <> RP+1_CPP-1_FF03_{c	ost}_[K]_inc_BCWS_dollars	other 1
Determine X items, a subset o			X qualifier
 Manually count flagged items Change is not consistent with the second secon	based on the following operation(s).		operation
Determine if X or X/X exceeds	0 1		

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 46, Management Value: "The reconciliation of current budgets to prior budgets ensures the baseline maintains data integrity and reconciliation to the contract value."

Page 47, Intent: "The use of program budget logs will assist in meeting the reconciliation intent of this guideline. The ability to track budget values for both the internal and external changes will help in the maintenance of the performance measurement baseline from program start to completion."

Pages 47-48, Typical Attribute(s): "Contractual change documents (external). May take various forms, (e.g., contract modification, letter to proceed from contracts office or legal office, not-to-exceed letter, change order, engineering change order, delivery order, basic ordering agreement, etc.) that transmit and authorize the change or addition to work, budget, and schedule.

• Contractor's internal documentation (e.g., change request form, program directive, etc.) facilitating the change. It should provide the rationale/justification, approval process, work scope additions or deletions by integrated product team or WBS, dollars, changes to schedules, estimate at completion, etc.

• Change control logs including management reserve justification, dollar amount and receiving WBS; undistributed budget justification, dollar amount and receiving WBS; performance measurement baseline dollar amount; and contract budget base total.

• Statement of work (amendments or revisions), WBS (changes if applicable), and WBS dictionary (additions or deletions to scope).

• Work authorization documents authorizing new work scope, schedule, budget and authorization to proceed, if not already changed by the internal change request process.

• Control account/work package/planning package plans showing revised work scope, duration, and budget.

• Master schedules, intermediate schedules (if any), and detailed schedules showing revised work scope and duration, changes to revised work scope and duration, changes to linkages, etc."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency		
G	G.03.06 (29.01.02) (150) automated	monthly		
5. Attribute					
Baseline Changes Reconciliat	ion				
6. Metric Intent					
			rol documentation was appropriately 3 value and the prior month IPRM F1 CBB		
7. Metric Short Descripti	on				
CBB change, IPMR F1 <> cha	inge control log		1		
8. Metric					
	current reporting period IPMR F1 (inge control log CBB and prior mo	• •	0.		
N/A					
9. Max. Threshold	10. Max. Tolerance	11. Weight			
0	1000	2.0			
12. Needed Artifacts and	I Data Elements				
	<u>X artifact(s)</u> FF07_{IPMR_header} FF12_{CC_log_detail} CPP-1_FF07_{IPMR_header}	<u>FF data elements</u> FF07_{IPMR_header}_ FF12_{CC_log_detail}_ FF12_{CC_log_detail}_ CPP-1_FF07_{IPMR_f	[I]_credit_dollars		
13. Assumptions					
14. Instructions					
Determine X items, a subset o	f Y, based on the following.		x		
Sum flagged items based on the	01 ()		qualifier		
	_F1_6_c_CBB - CPP-1_FF07_{IPMF credit_dollars + FF12_{CC_log_deta		3) <> operation		
Determine if V or V/V evenede	the threehold				

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 46, Management Value: "The reconciliation of current budgets to prior budgets ensures the baseline maintains data integrity and reconciliation to the contract value."

Page 47, Intent: "The use of program budget logs will assist in meeting the reconciliation intent of this guideline. The ability to track budget values for both the internal and external changes will help in the maintenance of the performance measurement baseline from program start to completion."

Pages 47-48, Typical Attribute(s): "Contractual change documents (external). May take various forms, (e.g., contract modification, letter to proceed from contracts office or legal office, not-to-exceed letter, change order, engineering change order, delivery order, basic ordering agreement, etc.) that transmit and authorize the change or addition to work, budget, and schedule.

• Contractor's internal documentation (e.g., change request form, program directive, etc.) facilitating the change. It should provide the rationale/justification, approval process, work scope additions or deletions by integrated product team or WBS, dollars, changes to schedules, estimate at completion, etc.

• Change control logs including management reserve justification, dollar amount and receiving WBS; undistributed budget justification, dollar amount and receiving WBS; performance measurement baseline dollar amount; and contract budget base total.

• Statement of work (amendments or revisions), WBS (changes if applicable), and WBS dictionary (additions or deletions to scope).

• Work authorization documents authorizing new work scope, schedule, budget and authorization to proceed, if not already changed by the internal change request process.

• Control account/work package/planning package plans showing revised work scope, duration, and budget.

• Master schedules, intermediate schedules (if any), and detailed schedules showing revised work scope and duration, changes to revised work scope and duration, changes to linkages, etc."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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1. Process Category	2. Metric ID (new, ol	d) 3. Method	4. Frequency
G	G.03.07 (29.01.03)	(151) automated/manual	monthly
5. Attribute			
Baseline Changes Reconciliat	ion		
6. Metric Intent			
completed. This metric identified	5		documentation was appropriately d time-phasing changes that have not been
7. Metric Short Descripti	on		
BCWS profile change unsubst	antiated		I.
8. Metric			
1. Change was not approved 2. Change before and after s			n in the EVMS cost tool, where
Y = Number of WP WBS by E	OC with BCWSi profile is dif	ferent from prior reporting month	n in the EVMS cost tool.
9. Max. Threshold	10. Max. Tolerance	11. Weight	
0		2.0	
12. Needed Artifacts and	l Data Elements		
<u>Y artifact(s)</u> FF03_{cost} CPP-1_FF03_{cost}	<u>X artifact(s)</u> FF03_{cost} change documentation	<u>FF data elements</u> FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_t FF03_{cost}_[K]_inc_BC CPP-1_FF03_{cost}_[K]_	WS_dollars
13. Assumptions			
14. Instructions			
Determine Y items based on th	ne following.		Y
, ,,		and, if identified, with the following	
 FF03_{cost}_[G]_WBS_type 			WBS type other 1
		F03_{cost}_[K]_inc_BCWS_dollars	<prome></prome>
Determine X items, a subset o		-(-)	X qualifier
, 00	based on the following operation	n(s).	operation
 1. Change was not approved 2. Change before and after s 	schedule and cost are not docu	mented, or	

3. Change in time-phasing where significant is not discussed in the justification.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 46, Management Value: "The reconciliation of current budgets to prior budgets ensures the baseline maintains data integrity and reconciliation to the contract value."

Page 47, Intent: "The use of program budget logs will assist in meeting the reconciliation intent of this guideline. The ability to track budget values for both the internal and external changes will help in the maintenance of the performance measurement baseline from program start to completion."

Pages 47-48, Typical Attribute(s): "Contractual change documents (external). May take various forms, (e.g., contract modification, letter to proceed from contracts office or legal office, not-to-exceed letter, change order, engineering change order, delivery order, basic ordering agreement, etc.) that transmit and authorize the change or addition to work, budget, and schedule.

• Contractor's internal documentation (e.g., change request form, program directive, etc.) facilitating the change. It should provide the rationale/justification, approval process, work scope additions or deletions by integrated product team or WBS, dollars, changes to schedules, estimate at completion, etc.

• Change control logs including management reserve justification, dollar amount and receiving WBS; undistributed budget justification, dollar amount and receiving WBS; performance measurement baseline dollar amount; and contract budget base total.

• Statement of work (amendments or revisions), WBS (changes if applicable), and WBS dictionary (additions or deletions to scope).

• Work authorization documents authorizing new work scope, schedule, budget and authorization to proceed, if not already changed by the internal change request process.

· Control account/work package/planning package plans showing revised work scope, duration, and budget.

• Master schedules, intermediate schedules (if any), and detailed schedules showing revised work scope and duration, changes to revised work scope and duration, changes to linkages, etc."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
G	G.03.08	(29.02.01) (152)	automated/manual	monthly
5. Attribute				
Baseline Changes Reconciliation	on			
6. Metric Intent				
This metric confirms that chang identifies the count of occurrent				udget outside the freeze period. This metric in the freeze period.
7. Metric Short Description	on			
PMB change unsubstantiated in	n freeze period			
8. Metric				
X = Number of PMB changes	in the freeze pe	eriod, where change	does not meet the allowat	ble SD exceptions.
Y = Number of PMB changes	in the freeze pe	eriod.		
9. Max. Threshold	10. Max.	Tolerance	11. Weight	
5.0%			2.0	
12. Needed Artifacts and	Data Elemen	ts		
<u>Y artifact(s)</u> FF11_{CC_log}	<u>X artifact(s)</u> SD		<u>FF data elements</u> FF11_{CC_log}_[B]_CPP FF11_{CC_log}_[C]_BCR FF11_{CC_log}_[D]_appr FF11_{CC_log}_[F]_imple FF11_{CC_log}_[I]_BCR_	LID oved_date ementation_date
13. Assumptions				
FF11_{CC_log}_ reflects changed	jes in the PMB.			
14. Instructions				
Determine Y items based on th Count FF11_{CC_log}_[C]_BCI • FF11_{CC_log}_[D]_approve • FF11_{CC_log}_[F]_impleme • FF11_{CC_log}_[I]_BCR_do	R_ID items and, ed_date [period] entation_date [pe	= FF11_{CC_log}_[B] eriod] = FF11_{CC_lo	_CPP_status_date	Y qualifier other 1 other 2 other 3
Determine X items, a subset of Manually count flagged items b • Change does not meet the a Determine if X or X/Y exceeds	ased on the follo llowable SD exc	owing operation(s).		X qualifier operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 47, Intent: "Budget changes are controlled and understood in terms of scope, resources, and schedule. The ability to track budget values for both the internal and external changes will help in the maintenance of the performance measurement baseline from program start to completion."

16. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by		
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank		
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank		
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank		
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank		
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank		

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	DOE EVMS Me	tric Specific	ation	San - UNITED ST	
1. Process Category 2. Metric ID (new, old) 3. Method 4. Frequenc					
G	G.03.09 (29.02.02) (153)	automated	quarterly		
5. Attribute					
Baseline Changes Reconcilia	ition				
6. Metric Intent					
	nges to BCWS for open WPs are limited ences for incomplete WP where the curr				
7. Metric Short Descript	lion				
DB change unsubstantiated				а	
8. Metric					
X = Number of open WP WE	3S DBs in the EVMS cost tool, where	current reporting month	h DB <> prior reporting month DB.		
•	3S DBs in the EVMS cost tool. CWP is at the CA WBS level.				
9. Max. Threshold	10. Max. Tolerance	11. Weight			
5.0%	1	2.0			
12. Needed Artifacts an	d Data Elements				
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost} CPP-1_FF03_{cost}	FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS FF03_{cost}_[K]_DB FF03_{cost}_[L]_BCWI FF03_{cost}_[M]_ACW CPP-1_FF03_{cost}_[h]	s_type Pc /Pc		
13. Assumptions					
14. Instructions					
Determine Y items based on Count FF03_{cost}_[D]_WBS • FF03_{cost}_[G]_WBS_typ • FF03_{cost}_[L]_BCWPc < • FF03_{cost}_[L]_BCWPc < OR FF03_{cost}_[M]_ACWPc • Sum FF03_{cost}_[K]_DB	items and, if identified, with the followin be = WP < FF03_{cost}_[K]_DB <> 0/null	ng characteristics.		Y qualifier WBS type incomplet other 1	
Determine X items, a subset	of Y, based on the following.			x	
	S and, if identified, with the following ch	aracteristics.		qualifier	
Count flagged items based or • FF03_{cost}_[K]_DB <> Cl	• • • • • •			qualifier operation	
Determine if X or X/Y exceed	a Alexa Alexa elevelor				

15. Reference(s)

Page 47, Intent: "Budget changes are controlled and understood in terms of scope, resources, and schedule. The ability to track budget values for both the internal and external changes will help in the maintenance of the performance measurement baseline from program start to completion."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
G	G.03.10	(29.03.01) (154)	automated/manual	monthly
5. Attribute				
Baseline Changes Reconciliati	ion			
6. Metric Intent				
This metric confirms that the us This metric identifies the count				horized work that is in-scope to the contra
7. Metric Short Description	on			
MR transaction unsubstantiate	d			
8. Metric				
X = Number of MR transaction	ons in the change	e control log, transa	action is processed for purp	ooses not authorized by the SD.
Y = Number of MR transaction	ons in the change	e control log.		
9. Max. Threshold	10. Max. 1	olerance	11. Weight	
5.0%			2.0	
12. Needed Artifacts and	Data Element	s		
<u>Y artifact(s)</u> FF12_{CC_log_detail}	<u>X artifact(s)</u> SD		<u>FF data elements</u> FF12_{CC_log_detail}_[D] FF12 {CC log detail} [F]	
13. Assumptions				
14. Instructions				
Determine Y items based on th	ne following.			Y
Count FF12_{CC_log_detail}_			th the following characteristic	
 FF12_{CC_log_detail}_[F]_t 	rn_category = MF	R		other 1
Determine X items, a subset of				X qualifier
 Manually count flagged items to Transaction is processed for 		• • • • • •		quanter
Determine if X or X/Y exceeds		anonzed by the OD.		
Betermine in X of X/1 exceeds	the unconoid.			

15. Reference(s)

Page 47, Intent: "Management reserve may be used for authorized work that is in-scope to the contract, but out of scope to a control account. Management reserve, therefore, may not be applied to completed work packages, except to compensate for the effect of routine accounting adjustments in accordance with the organization's accounting practices."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID (ne	w, old)	3. Method	4. Frequency
G	G.04.01 (30.	.01.01) (155)	automated/manual	monthly
5. Attribute				
Control of Retroactive Change	es			
6. Metric Intent				
				and the accuracy of performance WSi is < \$0 and not discussed in IPMR
7. Metric Short Descript	ion			
BCWSi < 0 unsubstantiated				1
8. Metric				
X = Number of WP WBSs wi the SD.	th BCWSi < 0 in the EV	MS cost tool, v	where changes are not disc	ussed in IPMR F5 or not consistent v
Y = Number of WP WBSs wi	th BCWSi < 0 in the EV	MS cost tool.		
9. Max. Threshold	10. Max. Tolera	ince	11. Weight	
0			1.9	
12. Needed Artifacts and	d Data Elements			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> IPMR F5 SD		FF data elements FF03_{cost}_B_CPP_statu FF03_{cost}_C]_period_da FF03 {cost}_D] WBS	
			FF03_{cost}_[G]_WBS_type FF03_{cost}_[K]_inc_BCW	
13. Assumptions				
14. Instructions				
Determine Y items based on t	he following.			Y
Count FF03_{cost}_[D]_WBS	items and, if identified, w	ith the following	g characteristics.	qualifier
 FF03_{cost}_[G]_WBS_type 				WBS type
FF03_{cost}_[K]_inc_BCW	—			other 1 other 2
 FF03_{cost}_[B]_CPP_state 			1	x
Determine X items, a subset of				A qualifier
Manually count flagged items • Changes are not discussed	0	,	D.	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 49, Management Value: "Retroactive changes to the baseline may mask variance trends and prevent use of the performance data to project estimates of cost and schedule at completion."

Page 49, Intent: "Control retroactive adjustments (including those in the current period), making only routine accounting adjustments, definitization of contract actions, rate changes, and economic price adjustments, customer-approved changes, or data entry corrections. Adjustments resulting from definitization of contract actions should be limited to affected work scope budgets. Changes that would arbitrarily eliminate existing cost and schedule variance should not be made. Rate changes and economic price adjustments are normal exceptions. The cumulative values for the budgeted cost for work scheduled and budgeted cost for work performed are not adjusted for routine direct or indirect cost rate increases or decreases. This is necessary to ensure baseline integrity and accuracy of performance measurement data. Retroactive budget and/or performance adjustments may delay visibility of overall project variance from plan, thus reducing the alternatives available to managers for project redirection or termination."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

		•	
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency
G	G.04.02 (30.01.02) (156	i) automated/manual	monthly
5. Attribute			
Control of Retroactive Change	es		
6. Metric Intent			
	active changes are appropriate and c identifies the count of occurrence t		and the accuracy of performance CWPi is < \$0 and not discussed in IPMR I
7. Metric Short Descripti	on		
BCWPi < 0 unsubstantiated			1
8. Metric			
X = Number of WP WBSs wi the SD.	th BCWPi < 0 in the EVMS cost to	ol, where changes are not disc	cussed in IPMR F5 or not consistent w
Y = Number of WP WBSs wi	th BCWPi < 0 in the EVMS cost to	ol.	
9. Max. Threshold	10. Max. Tolerance	11. Weight	
0		1.9	
12. Needed Artifacts and	l Data Elements		
<u>Y artifact(s)</u>	X artifact(s)	FF data elements	
FF03_{cost}	IPMR F5	FF03_{cost}_[B]_CPP_stat	
	SD	FF03_{cost}_[C]_period_da FF03 {cost} [D] WBS	ate
		FF03_{cost}_[G]_WBS_typ	be
		FF03_{cost}_[L]_inc_BCW	'P_dollars
13. Assumptions			
14. Instructions			
Determine Y items based on t	he following.		Y
Count FF03_{cost}_[D]_WBS	items and, if identified, with the follo	wing characteristics.	qualifier
 FF03_{cost}_[G]_WBS_type 	e = WP	-	WBS type
 FF03_{cost}_[L]_inc_BCWF 	P_dollars < 0		other 1
 FF03_{cost}_[B]_CPP_state 	us_date = FF03_{cost}_[C]_period_c	late	other 2
Determine X items, a subset c	f Y, based on the following.		x
Manually count flagged items	based on the following operation(s).		qualifier
 Changes are not discussed 	in IPMR F5 or not consistent with th	e SD.	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 49, Management Value: "Retroactive changes to the baseline may mask variance trends and prevent use of the performance data to project estimates of cost and schedule at completion."

Page 49, Intent: "Control retroactive adjustments (including those in the current period), making only routine accounting adjustments, definitization of contract actions, rate changes, and economic price adjustments, customer-approved changes, or data entry corrections. Adjustments resulting from definitization of contract actions should be limited to affected work scope budgets. Changes that would arbitrarily eliminate existing cost and schedule variance should not be made. Rate changes and economic price adjustments are normal exceptions. The cumulative values for the budgeted cost for work scheduled and budgeted cost for work performed are not adjusted for routine direct or indirect cost rate increases or decreases. This is necessary to ensure baseline integrity and accuracy of performance measurement data. Retroactive budget and/or performance adjustments may delay visibility of overall project variance from plan, thus reducing the alternatives available to managers for project redirection or termination."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID (r	new, old)	3. Method	4. Frequency
G	G.04.03 (3	30.01.03) (157)	automated/manual	monthly
5. Attribute				
Control of Retroactive Change	es			
6. Metric Intent				
				and the accuracy of performance WPi is < \$0 and not discussed in IPMR I
7. Metric Short Descripti	on			
ACWPi < 0 unsubstantiated				1
8. Metric				
X = Number of WP WBSs wi the SD.	th ACWPi < 0 in the E	EVMS cost tool,	where changes are not disc	ussed in IPMR F5 or not consistent w
Y = Number of WP WBSs wi	th ACWPi < 0 in the E	EVMS cost tool.		
9. Max. Threshold	10. Max. Tole	rance	11. Weight	
0			1.9	
12. Needed Artifacts and	d Data Elements			
Y artifact(s)	X artifact(s)		FF data elements	
FF03_{cost}	IPMR F5		FF03_{cost}_[B]_CPP_statu	
	SD		FF03_{cost}_[C]_period_da FF03 {cost} [D] WBS	te
			FF03_{cost}_[G]_WBS_type	3
			FF03_{cost}_[M]_inc_ACW	P_dollars
13. Assumptions				
14. Instructions				
Determine Y items based on t	he following.			Y
Count FF03_{cost}_[D]_WBS	items and, if identified,	, with the followin	ng characteristics.	qualifier
 FF03_{cost}_[G]_WBS_type 	e = WP			WBS type
 FF03_{cost}_[M]_inc_ACW 	_			other 1
 FF03_{cost}_[B]_CPP_state 	us_date = FF03_{cost}	[C]_period_date	e	other 2
<u>Determine X items, a subset c</u>	of Y, based on the follo	wing.		x
Manually count flagged items	0	••••••		qualifier
 Changes are not discussed 	in IPMR F5 or not con	isistent with the S	SD.	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 49, Management Value: "Retroactive changes to the baseline may mask variance trends and prevent use of the performance data to project estimates of cost and schedule at completion."

Page 49, Intent: "Control retroactive adjustments (including those in the current period), making only routine accounting adjustments, definitization of contract actions, rate changes, and economic price adjustments, customer-approved changes, or data entry corrections. Adjustments resulting from definitization of contract actions should be limited to affected work scope budgets. Changes that would arbitrarily eliminate existing cost and schedule variance should not be made. Rate changes and economic price adjustments are normal exceptions. The cumulative values for the budgeted cost for work scheduled and budgeted cost for work performed are not adjusted for routine direct or indirect cost rate increases or decreases. This is necessary to ensure baseline integrity and accuracy of performance measurement data. Retroactive budget and/or performance adjustments may delay visibility of overall project variance from plan, thus reducing the alternatives available to managers for project redirection or termination."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification					
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency		

automated

monthly

	-		
ι		Ľ	

5. Attribute

Preventing Unauthorized Revisions to the Contract Budget Base (CBB)/Project Budget Base (PBB)

(31.01.01) (158)

G.05.01

6. Metric Intent

This metric confirms that the project budget is revised through authorization from the customer. This metric identifies where there is a difference between the current period CBB log value and the two prior months CBB log values, and where there is a difference between the IPMR F1 CCB value and the current period CBB log value.

7. Metric Short Description

CBB log, current <> prior <> 2 prior

8. Metric

X =

1. Current reporting month CBB log <> prior reporting month CBB log plus changes or

2. Prior reporting month CBB log <> 2 prior reporting month CBB log plus changes.

N/A

9. Max. Threshold	10. Max. Tolerance	11. Weight
0	1000	2.1

12. Needed Artifacts and Data Elements

FF data elements
FF07_{IPMR_header}_[Y]_F1_6_c_CBB
FF12 {CC log detail} [F] trn category
FF12_{CC_log_detail}_[I]_credit_dollars
FF12_{CC_log_detail}_[K]_debit_dollars
CPP-1_FF07_{IPMR_header}_[Y]_F1_6_c_CBB
CPP-1_FF12_{CC_log_detail}_[F]_trn_category
CPP-1_FF12_{CC_log_detail}_[I]_credit_dollars
CPP-1_FF12_{CC_log_detail}_[K]_debit_dollars
CPP-2_FF07_{IPMR_header}_[Y]_F1_6_c_CBB
CPP-2_FF12_{CC_log_detail}_[F]_trn_category
CPP-2_FF12_{CC_log_detail}_[I]_credit_dollars
CPP-2_FF12_{CC_log_detail}_[K]_debit_dollars

13. Assumptions

14. Instructions

Determine X items, a subset of Y, based on the following.	x
Sum flagged items based on the following operation(s).	qualifier
 FF07_{IPMR_header}_[Y]_F1_6_c_CBB <> CPP-1_FF07_{IPMR_header}_[Y]_F1_6_c_CBB + ((FF12_{CC_log_detaii}_[I]_credit_dollars + FF12_{CC_log_detail}_[K]_debit_dollars) where FF12_{CC_log_detail}_[F]_trn_category = DB or UB or MR) OR 	operation
CPP-1_FF07_{IPMR_header}_[Y]_F1_6_c_CBB <> CPP-2_FF07_{IPMR_header}_[Y]_F1_6_c_CBB + ((CPP-	

1_FF12_{CC_log_detail}_[F]_trn_category = DB or UB or MR)

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 51, Intent: "Prevent unauthorized revisions to the performance measurement baseline. Any changes to the project must be approved and implemented following the baseline management control process. This control precludes the inadvertent implementation of a budget baseline greater than the project budget. When the performance budget or schedule objectives exceed the project plan and are recognized in the performance measurement baseline, it is identified as an over-target baseline (OTB)....When the organization and customer project managers are satisfied that the new baseline represents a reasonable plan for completing the contract, the new baseline becomes the basis for future performance measurement."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

DOE EVMS Metric Specification						
1. Process Category	2. Metric ID) (new, old)	3. Method	4. Frequency		
G	G.05.02	(31.01.02) (159)	automated/manual	monthly		
5. Attribute						
Preventing Unauthorized Revi	sions to the Contra	ct Budget Base (C	BB)/Project Budget Base (PB	3)		
6. Metric Intent						
	alue and the CBB v			his metric identifies where there is pproval from the customer to pro		
7. Metric Short Descripti	ion					
OTB not approved by DOE					I	
8. Metric						
X = Number of TAB minus C	BB <> 0 in the IPN	IR F1, where OTE	B has not been approved by	DOE.		
Y = Number of TAB minus C	BB <> 0 in the IPN	IR F1.				
9. Max. Threshold	10. Max. To	olerance	11. Weight			
1000			2.1			
12. Needed Artifacts and	d Data Elements	;				
<u>Y artifact(s)</u> FF07_{IPMR_header}	<u>X artifact(s)</u> OTB approva	l document	<u>FF data elements</u> FF07_{IPMR_header}_[B] FF07_{IPMR_header}_[Y] FF07_{IPMR_header}_[AI	_F1_6_c_CBB		
13. Assumptions						
14. Instructions						
Determine Y items based on t	he following.				Y	
Count FF07_{IPMR_header}_ FF07_{IPMR_header}_[AI]_ 			entified, with the following char _[Y]_F1_6_c_CBB <> 0	acteristics.	qualifier other 1	
Determine X items, a subset c	of Y, based on the fo	ollowing.			x	
Manually count flagged items		ing operation(s).			qualifier	
 OTB has not been approved 	d by DOE.				operation	

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 51, Intent: "Prevent unauthorized revisions to the performance measurement baseline. Any changes to the project must be approved and implemented following the baseline management control process. This control precludes the inadvertent implementation of a budget baseline greater than the project budget. When the performance budget or schedule objectives exceed the project plan and are recognized in the performance measurement baseline, it is identified as an over-target baseline (OTB)....When the organization and customer project managers are satisfied that the new baseline represents a reasonable plan for completing the contract, the new baseline becomes the basis for future performance measurement."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
G	G.05.03	(31.01.03) (160)	automated/manual	monthly	
5. Attribute					
Preventing Unauthorized Re	visions to the Contra	act Budget Base (CB	B)/Project Budget Base (PB	3)	
6. Metric Intent					
his metric confirms that the proved OTB value is appr		•	ization from the customer. Th	nis metric verifies that the custom	ner
7. Metric Short Descrip	tion				
hange implemented prior D	OE authorization				
8. Metric					
 Number of changes in o implementation. Consider authorizations not service in the ser	ot recorded in the c	change control log.	is not supported by a DOE	authorization document appro	oved pri
9. Max. Threshold	10. Max. T	olerance	11. Weight		
0			2.1		
2. Needed Artifacts a	nd Data Element	S			
<u>Y artifact(s)</u> FF12_{CC_log_detail} FF11_{CC_log}	<u>X artifact(s)</u> FF11_{CC_lo DOE authori;	og} zation document	FF data elements FF11_{CC_log}_[C]_BCR_ FF11_{CC_log}_[D]_appro FF11_{CC_log}_[F]_imple FF12_{CC_log_detail}_[D] FF12_{CC_log_detail}_[F]	ved_date mentation_date _BCR_ID	
13. Assumptions				0 /	
4. Instructions					
Determine Y items based or	the following.				Y
Count FF12_{CC_log_detail FF11_{CC_log}_[C]_BCR_I	D items and, if identit		g characteristics.		qualifier other 1
FF12_{CC_log_detail}_[F]		or UB or MR			other 2
FF11_{CC_log}_[D]_appr FF11_{CC_log}_[F]_imple		ting>			other 3
Determine X items, a subset					x
lanually count flagged item	s based on the follow	wing operation(s).			qualifier
FF11_{CC_log}_[F]_imple	ementation_date < D	OE authorization ap	proval date.		operation
etermine if X or X/Y exceed	ds the threshold.				
5. Reference(s)					
and implemented following t	he baseline manage	ment control process	s. This control precludes the	changes to the project must be a inadvertent implementation of a b ceed the project plan and are re-	budget

Page 51, Intent: Prevent unauthorized revisions to the performance measurement baseline. Any changes to the project must be approved and implemented following the baseline management control process. This control precludes the inadvertent implementation of a budget baseline greater than the project budget. When the performance budget or schedule objectives exceed the project plan and are recognized in the performance measurement baseline, it is identified as an over-target baseline (OTB)....When the organization and customer project managers are satisfied that the new baseline represents a reasonable plan for completing the contract, the new baseline becomes the basis for future performance measurement."

16.	Revision	Block
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-					
rev. r	no. description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.	00 Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.	00 Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.	00 Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.	01 Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.	00 Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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1. Process Category	2. Metric ID (new, o	d) 3. Method	4. Frequency
G	G.06.01 (08.03.01		
5. Attribute			
Over Target Baseline (OTB)/C	over Target Schedule (OTS) A	uthorization	
6. Metric Intent			
OTB/OTS, whether the approp		y the DOE, whether an OTB/OTS is r	is metric assesses the existence of an reported correctly in IPMR F1, F3, and F5
7. Metric Short Descripti	ion		
OTB unsubstantiated			а
8. Metric			
b. Verify if OTB is appropria	tely reported in IPMR F1, F3,	and F5, or	
b. Verify if OTB is appropria c. Verify if authorization valu N/A	tely reported in IPMR F1, F3, ue = OTB value.		
b. Verify if OTB is appropria c. Verify if authorization valu N/A	tely reported in IPMR F1, F3,	and F5, or 11. Weight 1.2	
b. Verify if OTB is appropria c. Verify if authorization valu N/A 9. Max. Threshold 0	tely reported in IPMR F1, F3, ue = OTB value. 10. Max. Tolerance 1000	11. Weight	
b. Verify if OTB is appropria c. Verify if authorization valu N/A 9. Max. Threshold 0	tely reported in IPMR F1, F3, ue = OTB value. 10. Max. Tolerance 1000	11. Weight	_F1_5_i_OTB_date _F1_6_c_CBB
b. Verify if OTB is appropria c. Verify if authorization valu N/A 9. Max. Threshold 0 12. Needed Artifacts and	tely reported in IPMR F1, F3, ue = OTB value. 10. Max. Tolerance 1000 d Data Elements <u>X artifact(s)</u>	11. Weight 1.2 <u>FF data elements</u> FF07_{IPMR_header}_[B] FF07_{IPMR_header}_[U] FF07_{IPMR_header}_[Y]	_F1_5_i_OTB_date _F1_6_c_CBB
b. Verify if OTB is appropria c. Verify if authorization valu N/A 9. Max. Threshold 0 12. Needed Artifacts and 13. Assumptions	tely reported in IPMR F1, F3, ue = OTB value. 10. Max. Tolerance 1000 d Data Elements <u>X artifact(s)</u>	11. Weight 1.2 <u>FF data elements</u> FF07_{IPMR_header}_[B] FF07_{IPMR_header}_[U] FF07_{IPMR_header}_[Y]	_F1_5_i_OTB_date _F1_6_c_CBB
b. Verify if OTB is appropria c. Verify if authorization value N/A 9. Max. Threshold 0 12. Needed Artifacts and 13. Assumptions 14. Instructions	tely reported in IPMR F1, F3, ue = OTB value. 10. Max. Tolerance 1000 d Data Elements <u>X artifact(s)</u> FF07_{IPMR_header}	11. Weight 1.2 <u>FF data elements</u> FF07_{IPMR_header}_[B] FF07_{IPMR_header}_[U] FF07_{IPMR_header}_[Y]	_F1_5_i_OTB_date _F1_6_c_CBB
b. Verify if OTB is appropria c. Verify if authorization value N/A 9. Max. Threshold 0 12. Needed Artifacts and 13. Assumptions 14. Instructions Determine X items, a subset of Identify FF07_{IPMR_header}	tely reported in IPMR F1, F3, ue = OTB value. 10. Max. Tolerance 1000 d Data Elements <u>X artifact(s)</u> FF07_{IPMR_header} <u>of Y, based on the following.</u> _[B]_CPP_status_date and, if	11. Weight 1.2 <u>FF data elements</u> FF07_{IPMR_header}_[B] FF07_{IPMR_header}_[U] FF07_{IPMR_header}_[Y]	F1_5_i_OTB_date F1_6_c_CBB I]_F3_5_f_TAB ristics.
c. Verify if authorization valu N/A 9. Max. Threshold 0 12. Needed Artifacts and 13. Assumptions 14. Instructions Determine X items, a subset of Identify FF07_{IPMR_header} Sum flagged items based on t	tely reported in IPMR F1, F3, ue = OTB value. 10. Max. Tolerance 1000 d Data Elements <u>X artifact(s)</u> FF07_{IPMR_header} <u>of Y, based on the following.</u> _[B]_CPP_status_date and, if he following operation(s).	11. Weight 1.2 <u>FF data elements</u> FF07_{IPMR_header}_[B] FF07_{IPMR_header}_[U] FF07_{IPMR_header}_[Y] FF07_{IPMR_header}_[A] identified, with the following characte	_F1_5_i_OTB_date _F1_6_c_CBB I]_F3_5_f_TAB
b. Verify if OTB is appropria c. Verify if authorization value N/A 9. Max. Threshold 0 12. Needed Artifacts and 13. Assumptions 14. Instructions Determine X items, a subset of Identify FF07_{IPMR_header} Sum flagged items based on t	tely reported in IPMR F1, F3, ue = OTB value. 10. Max. Tolerance 1000 d Data Elements <u>X artifact(s)</u> FF07_{IPMR_header} of Y, based on the following. _[B]_CPP_status_date and, if he following operation(s). _F3_5_f_TAB <> FF07_{IPMR}	11. Weight 1.2 <u>FF data elements</u> FF07_{IPMR_header}_[B] FF07_{IPMR_header}_[U] FF07_{IPMR_header}_[Y] FF07_{IPMR_header}_[A] identified, with the following characte	F1_5_i_OTB_date F1_6_c_CBB I]_F3_5_f_TAB ristics.

FF07_{IPMR_header}_[U]_F1_5_i_OTB_date does not a valid date, OTB was not appropriately approved, OTB was not reported operation correctly in IPMR F1, F3, or F5, or OTB authorization amount does not equal to the OTB value.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 16, Intent: "During the life of a project, situations may arise whereby available budgets for the remaining work are insufficient to ensure valid performance measurement. Under these circumstances, a requirement may exist for the total budget allocated to work to exceed the recognized Contract Budget Base (CBB). The resulting value is referred to as an Over-Target Baseline (OTB). There may also be situations where the estimated completion date extends beyond the contract completion date. Under some circumstances, it may be prudent to extend the planned completion date beyond the contractual period of performance. The result of this extension is referred to as an Over-Target Schedule (OTS). When the contractor and customer project managers are satisfied that the new baseline represents a reasonable plan for completing the contract, the new baseline becomes the basis for future performance measurement."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	DOE E	VMS Me	tric Specific	cation	
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
Н	H.01.01	(21.01.01) (162)	automated	monthly	
5. Attribute					
Recording Actual Material Co	osts				
6. Metric Intent					
				ets are planned and performance is c he CA or WP material EOC at the lev	
7. Metric Short Descript	tion				
A without P (cumulative) disc	rete material				a
8. Metric					
X = \$ total of the discrete m	aterial WP WBS AC	WPc in the EVMS	cost tool, where ACW	Pc > 0 and BCWPc <= 0.	
Y = \$ total of the discrete m Conduct at the CA level if A			cost tool.		
9. Max. Threshold	10. Max. Tol	erance	11. Weight		
1.0%			1.5		
12. Needed Artifacts an	d Data Elements				
<u>Y artifact(s)</u>	X artifact(s)		FF data elements		
FF03_{cost}	FF03_{cost}		FF03_{cost}_D]_WB3 FF03_{cost}_E]_EO0 FF03_{cost}_G]_WB3 FF03_{cost}_J]_EV_ FF03_{cost}_L]_BCV FF03_{cost}_M]_ACV	C S_type method VPc	
13. Assumptions					
ACWPs are collected at the \	VP level. If ACWPs ar	e collected at the	CA level, test needs to b	be conducted at CA level.	
14. Instructions					
Determine Y items based on	the following.				Y
Sum FF03_{cost}_[D]_WBS i		, with the following	characteristics.		qualifier
 FF03_{cost}_[G]_WBS_typ 		•			WBS type
 FF03_{cost}_[J]_EV_meth FF03_{cost}_[E]_EOC = m 		A			EOC
 FF03_{cost}_[E]_EOC = m Sum abs(FF03 {cost} [M] 					sum
Determine X items, a subset	- ,	owing			x
Identify FF03_{cost}_[D]_WB			aracteristics.		qualifier
		0			- 44 4

- FF03_{cost}_[M]_ACWPc > 0
- FF03 {cost} [L] BCWPc <= 0

Sum flagged items based on the following operation(s).
• FF03 {cost} [M] ACWPc

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 35, Management Value: "The establishment of a valid comparison of planned material costs for completed work with the actual material costs for that work provides the basis for realistic evaluation of cost deviations and ultimately facilitates cost at complete projections.

Page 35, Typical Attribute(s): "The material system needs to account for various methods of charging material cost from inventory in accordance with cost accounting standards inventory costing methods; i.e., First-In, First-Out (FIFO); moving average; weighted average; standard cost; and Last-In, First-Out (LIFO). Identify accountability for all material purchased for the program including material issues to control accounts, return of unused material, scrap quantity and disposition, and residual inventory."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. Re-ID'ed from 21.01.02 to 20.01.01. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

other 1

other 2

qualifier

operation

(TRAT OF

DOE EVMS Metric Specification

1. Process Category	2. Metric ID (new, old) 3. Method	4. Frequency	
Н	H.01.02 (21.01.02)	(163) automated	monthly	
5. Attribute				
Recording Actual Material Costs	3			
6. Metric Intent				
		0	ts are planned and performance is o CA or WP material EOC at the level	
7. Metric Short Descriptio	n			
⊃ without A (cumulative) discret	e material			а
3. Metric				
K = \$ total of the discrete mat	erial WP WBS BCWPc in the	EVMS cost tool, where BCWP	c > 0 and ACWPc <= 0.	
Y = \$ total of the discrete mat Conduct at the CA level if AC\		EVMS cost tool.		
9. Max. Threshold	10. Max. Tolerance	11. Weight		
1.0%		1.5		
12. Needed Artifacts and	Data Elements			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost}	<u>FF data elements</u> FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_ FF03_{cost}_[J]_EV_m FF03_{cost}_[L]_BCWF FF03_{cost}_[M]_ACW	ethod Pc	
13. Assumptions				
ACWPs are collected at the WP	level. If ACWPs are collected	at the CA level, test needs to be	conducted at CA level.	
14. Instructions				
Determine Y items based on the Sum FF03_{cost}_[D]_WBS iter • FF03_{cost}_[G]_WBS_type • FF03_{cost}_[J]_EV_method • FF03_{cost}_[E]_EOC = mate • Sum abs(FF03_{cost}_[L]_BC	ns and, if identified, with the fo = WP <> A or J or K or NA erial	llowing characteristics.		Y qualifier WBS type EVT EOC sum
Determine X items, a subset of dentify FF03_{cost}_[D]_WBS a • FF03_{cost}_[L]_BCWPc > 0 • FF03 {cost} [M] ACWPc <=	Y, based on the following. and, if identified, with the follow	ving characteristics.		X qualifier other 1 other 2 qualifier

15. Reference(s)

Page 35, Management Value: "The establishment of a valid comparison of planned material costs for completed work with the actual material costs for that work provides the basis for realistic evaluation of cost deviations and ultimately facilitates cost at complete projections.

Page 35, Typical Attribute(s): "The material system needs to account for various methods of charging material cost from inventory in accordance with cost accounting standards inventory costing methods; i.e., First-In, First-Out (FIFO); moving average; weighted average; standard cost; and Last-In, First-Out (LIFO). Identify accountability for all material purchased for the program including material issues to control accounts, return of unused material, scrap quantity and disposition, and residual inventory."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. Re-ID'ed from 21.01.01 to 20.01.02. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

	_			
1. Process Category	2. Metric ID (nev	v, old) 3. Methe	od 4.	Frequency
н	H.01.03 (21.0	01.03) (164) automate	d mc	onthly
5. Attribute				
Recording Actual Material Cos	sts			
6. Metric Intent				
This metric confirms that mate This metric identifies the coun			0 1	
7. Metric Short Descript	ion			
P without A (incremental) disc	rete material			а
8. Metric				
X = \$ total of the discrete ma	aterial WP WBS BCWPi	n the EVMS cost tool, w	here BCWPi > 0 and ACWP	°i <= 0.
Y = \$ total of the discrete ma Conduct at the CA level if A				
9. Max. Threshold	10. Max. Tolera	nce 11. Weig	ght	
1.0%		1.5		
12. Needed Artifacts and	d Data Elements			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost}	FF03_{co FF03_{co FF03_{co FF03_{co FF03_{co FF03_{co	elements ist]_[B]_CPP_status_date ist]_[D]_WBS ist]_[E]_EOC ist]_[G]_WBS_type ist]_[J]_EV_method ist]_[L]_inc_BCWP_dollars ist]_[M]_inc_ACWP_dollars	
13. Assumptions				
ACWPs are collected at the W	/P level. If ACWPs are co	lected at the CA level, tes	st needs to be conducted at C	CA level.
14. Instructions				
Determine Y items based on t Sum FF03_{cost}_[D]_WBS it • FF03_{cost}_[G]_WBS_typ • FF03_{cost}_[J]_EV_metho • FF03_{cost}_[E]_EOC = ma • FF03_{cost}_[B]_CPP_statu • Sum abs(FF03_{cost}_[L]_i	ems and, if identified, with e = WP od <> A or J or K or NA aterial us_date = FF03_{cost}_[C	, , , , , , , , , , , , , , , , , , ,	tics.	Y qualifier WBS type EVT EOC other 1 sum
Determine X items, a subset of Identify FF03_{cost}_[D]_WBS	of Y, based on the followin			X qualifier

FF03 {cost} [L] inc BCWP dollars > 0

- FF03 {cost} [M] inc ACWP dollars <= 0
- Sum flagged items based on the following operation(s).
- FF03_{cost}_[L]_inc_BCWP_dollars

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 35, Management Value: "The establishment of a valid comparison of planned material costs for completed work with the actual material costs for that work provides the basis for realistic evaluation of cost deviations and ultimately facilitates cost at complete projections.

Page 35, Typical Attribute(s): "The material system needs to account for various methods of charging material cost from inventory in accordance with cost accounting standards inventory costing methods; i.e., First-In, First-Out (FIFO); moving average; weighted average; standard cost; and Last-In, First-Out (LIFO). Identify accountability for all material purchased for the program including material issues to control accounts, return of unused material, scrap quantity and disposition, and residual inventory."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

other 1

other 2

qualifier operation

DOE EVMS Metric	Specification
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					Contraction of the second
1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency	
н	H.01.04 (21.01.04) (165)	automated	monthly	
5. Attribute					
Recording Actual Material Cos	sts				
6. Metric Intent					
			0	s are planned and performance is A or WP material EOC at the level	
7. Metric Short Descript	ion				
A without P (incremental) disc	rete material				а
8. Metric					
X = \$ total of the discrete ma	aterial WP WBS ACW	Pi in the EVMS	cost tool, where ACWPi	> 0 and BCWPi <= 0.	
Y = \$ total of the discrete ma Conduct at the CA level if A			cost tool.		
9. Max. Threshold	10. Max. Tole	erance	11. Weight		
1.0%			1.5		
12. Needed Artifacts and	d Data Elements				
<u>Y artifact(s)</u>	X artifact(s)		FF data elements		
FF03_{cost}	FF03_{cost}		FF03_{cost}_[B]_CPP = FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_ FF03_{cost}_[J]_EV_ma FF03_{cost}_[L]_inc_BC FF03_{cost}_[M]_inc_A	_ _type ethod CWP_dollars	
13. Assumptions					
ACWPs are collected at the W	/P level. If ACWPs are	e collected at the	CA level, test needs to be	conducted at CA level.	
14. Instructions					
Determine Y items based on t	he following.				Y
Sum FF03_{cost}_[D]_WBS it		with the following	characteristics.		qualifier WBS type
 FF03_{cost}_[G]_WBS_type FF03_{cost}_[J]_F)(months 					EVT
 FF03_{cost}_[J]_EV_method FF03 {cost} [E] EOC = mag 		4			EOC
 FF03_{cost}_[B]_CPP_state 		[C] period dat	۵		other 1
 Sum abs(FF03_{cost}_[M]_ 					sum
Determine X items, a subset of	of Y, based on the follo	wing.			x
Identify EE03 {cost} [D] WBS		-	aracteristics		qualifier

Identify FF03_{cost}_[D]_WBS and, if identified, with the following characteristics.

- FF03_{cost}_[M]_inc_ACWP_dollars > 0
 FF03 {cost} [L] inc BCWP dollars <= 0
- Sum flagged items based on the following operation(s).
- FF03_{cost}_[M]_inc_ACWP_dollars

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 35, Management Value: "The establishment of a valid comparison of planned material costs for completed work with the actual material costs for that work provides the basis for realistic evaluation of cost deviations and ultimately facilitates cost at complete projections.

Page 35, Typical Attribute(s): "The material system needs to account for various methods of charging material cost from inventory in accordance with cost accounting standards inventory costing methods; i.e., First-In, First-Out (FIFO); moving average; weighted average; standard cost; and Last-In, First-Out (LIFO). Identify accountability for all material purchased for the program including material issues to control accounts, return of unused material, scrap quantity and disposition, and residual inventory."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

other 1

other 2

qualifier operation

1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency
н	H.01.05 (21.01.05) (166)) automated	monthly
5. Attribute			
Recording Actual Material Co	osts		
6. Metric Intent			
			s are planned and performance is claimed. C and BCWPi <= \$0 for the CA or WP mater
7. Metric Short Descript	tion		
A without P (incremental) dis	crete material completed		а
8. Metric			
X = \$ total of the complete	discrete material WP WBS abs(ACW	/Pi) in the EVMS cost tool,	where ACWPi <> 0 and BCWPi <= 0.
	discrete material WP WBS abs(ACW ACWP is at the CA WBS level.	/Pi) in the EVMS cost tool.	
9. Max. Threshold	10. Max. Tolerance	11. Weight	
1000		1.5	
12. Needed Artifacts an	d Data Elements		
Y artifact(s)	X artifact(s)	FF data elements	
FF03_{cost}	FF03_{cost}	FF03_{cost}_[B]_CPP_s FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_ FF03_{cost}_[J]_EV_ms FF03_{cost}_[L]_DB FF03_{cost}_[L]_inc_BC FF03_{cost}_[L]_BCWP FF03_{cost}_[M]_inc_A	_ type ethod CWP_dollars c
13. Assumptions			
ACWPs are collected at the \	WP level. If ACWPs are collected at th	e CA level, test needs to be	conducted at CA level.
14. Instructions			
Determine Y items based on			Y
, ,,	items and, if identified, with the following	ng characteristics.	qualifier WBS type
 FF03_{cost}_[G]_WBS_type FF03_{cost}_[J]_EV_meth 			EVT
 FF03 {cost} [5] EOC = m 			EOC
	tus date = FF03 {cost} [C] period d	ate	other 1
 Sum abs(FF03_{cost}_[M] 	, ,		sum
Determine X items. a subset	of Y, based on the following.		x

Determine X items, a subset of Y, based on the following.

Identify FF03_{cost}_[D]_WBS and, if identified, with the following characteristics.	qualifier
 FF03_{cost}_[M]_inc_ACWP_dollars <> 0 	other 1
 FF03_{cost}_[L]_inc_BCWP_dollars <= 0 	other 2
 FF03_{cost}_[L]_BCWPc = FF03_{cost}_[K]_DB 	other 3
Sum flagged items based on the following operation(s).	qualifier
 abs(FF03_{cost}_[M]_inc_ACWP_dollars) 	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 35, Management Value: "The establishment of a valid comparison of planned material costs for completed work with the actual material costs for that work provides the basis for realistic evaluation of cost deviations and ultimately facilitates cost at complete projections.

Page 35, Typical Attribute(s): "The material system needs to account for various methods of charging material cost from inventory in accordance with cost accounting standards inventory costing methods; i.e., First-In, First-Out (FIFO); moving average; weighted average; standard cost; and Last-In, First-Out (LIFO). Identify accountability for all material purchased for the program including material issues to control accounts, return of unused material, scrap quantity and disposition, and residual inventory."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

					-sone
1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
Н	H.02.01	(21.02.01) (167)	automated/manual	monthly	
5. Attribute					
Material Performance					
6. Metric Intent					
			corded either upon receipt of materia DV-CI material listed on the BL IMS		
7. Metric Short Description	1				
HDV-CI not negotiated					I
8. Metric					
X = Number of HDV-CI activitie	s in the BL IMS	starting within 6 n	nonths from the current period, w	here work has not been	negotiat
Y = Number of HDV-CI activitie	s in the BL IMS	starting within 6 n	nonths from the current period.		
9. Max. Threshold	10. Max. To	lerance	11. Weight		
0			1.5		
12. Needed Artifacts and I	oata Elements				
<u>Y artifact(s)</u> FF23_{HDV-CI} FF04_{schedule}	<u>X artifact(s)</u> HDV-CI docur	nents	FF data elements FF04_{schedule}_[B]_CPP_status FF04_{schedule}_[C]_schedule_t FF04_{schedule}_[L]_ES_date FF04_{schedule}_[AD]_HDV_dess FF23_{HDV-CI}_[E]_HDV_descri	vpe cription	
13. Assumptions					
14. Instructions					
Determine Y items based on the	following.				Y
	-	F23_{HDV-CI}_[E]_	_HDV_description items and, if ident	ified, with the following	qualifier
 FF04_{schedule}_[C]_schedul 					sch. type
 FF04_{schedule}_[AD]_HDV_ FF04_{schedule}_[L]_ES_date 			_ ·		other 2
Determine X items, a subset of Υ					x
Manually count flagged items ba					qualifier
 HDV-CI work has not been ne 					operation
Determine if X or X/Y exceeds th	e threshold.				

15. Reference(s)

Page 35, Intent: "Material costs must be accurately charged to contract control accounts using recognized, acceptable costing techniques. The need for accurate comparison of material costs to material budgets and earned value requires that the appropriate point of performance measurement for material is established. The generally acceptable points for measuring material progress are:

a. Point of receipt (acceptance),

b. Point of stock (inventory), andc. Point of issue to work in process (consumption)"

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
Н	H.02.02	(21.02.02) (168)	automated	monthly	
5. Attribute					
Material Performance					
6. Metric Intent					
			orded either upon receipt of materia e count of occurrences where HDV-0		
7. Metric Short Description					
HDV-CI LOE					a A
8. Metric					
X = Number of incomplete WP V	VBSs (only EV	۲ LOEs) in the BL II	MS, that are HDV-CI.		
Y = Number of incomplete WP V	VBSs (only EV	۲ LOEs) in the BL II	MS.		
9. Max. Threshold	10. Max. To	lerance	11. Weight		
0			1.5		
12. Needed Artifacts and Da	ata Elements				
<u>Y artifact(s)</u> FF04_{schedule} FF03_{cost}	<u>X artifact(s)</u> FF04_{schedu FF03_{cost}	ıle}	FF data elements FF03_{cost}_[G]_WBS_type FF04_{schedule}_[B]_CPP_status, FF04_{schedule}_[C]_schedule_ty FF04_{schedule}_[D]_task_ID FF04_{schedule}_[E]_task_type FF04_{schedule}_[K]_EV_method FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF04_{schedule}_[J]_AS_date FF04_{schedule}_[U]_AF_date FF04_{schedule}_[AC]_is_HDV	_date pe	
13. Assumptions					
14. Instructions					
OR IF FF04_{schedule}_[E]_task_1 IF FF04_{schedule}_[D]_task_1 FROM FF04_{schedule}_[C]_s IF FF04_{schedule}_[E]_task_ FF04_{schedule}_[B]_CPP_sta OR	_ID items and, if WP e_type = BL D IS IN FF04_{s chedule_type = type = M THEN type <> M THEN D IS NOT IN FF chedule_type = type = M THEN tus_date < FF04	chedule}_[C]_sched FC FF04_{schedule}_[U I FF04_{schedule}_[04_{schedule}_[C]_s BL FF04_{schedule}_[L]_ES	ule_type = FC]_AF_date = null AND FF04_{sched U]_AF_date = null schedule_type = FC 8]_CPP_status_date < FF04_{sched	ule}_[M]_EF_date OR	Y qualifer WBS type sch. type Incomplete
Determine X items, a subset of Y,		llowing.			x
Identify FF04_{schedule}_[D]_task Count flagged items based on the • FF04_{schedule}_[AC]_is_HDV	k_ID and, if iden following opera	tified, with the follow	ing characteristics.		qualifier qualifier operation
Determine if X or X/Y exceeds the	threshold.				

15. Reference(s)

Page 35, Intent: "Material costs must be accurately charged to contract control accounts using recognized, acceptable costing techniques. The need for accurate comparison of material costs to material budgets and earned value requires that the appropriate point of performance measurement for material is established. The generally acceptable points for measuring material progress are:

a. Point of receipt (acceptance),b. Point of stock (inventory), and

c. Point of issue to work in process (consumption)"

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

			-		100
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency	
н	H.02.03	(21.02.03) (169)	automated/manual	monthly	
5. Attribute					
Material Performance					
6. Metric Intent					
	n of the material. T	his metric identifies th	ne count of occurrences wher	material but no earlier, issue e HDV-CI material activities ir the cost system.	
7. Metric Short Descript	tion				
material EVT unsubstantiated	t				а
8. Metric					
X = Number of incomplete r manner in which the materi		is in the EVMS cost	tool, where abs(SV%) > 10%	and EVT is not consistent	with the
Y = Number of incomplete r	naterial WP WBS	s in the EVMS cost	tool.		
9. Max. Threshold	10. Max.	Tolerance	11. Weight		
5.0%			1.5		
12. Needed Artifacts an	d Data Elemen	ts			
<u>Y artifact(s)</u> FF03_{cost}	<u>X artifact(s)</u> FF03_{cost		FF data elements FF03_{cost}_[B]_CPP_sta FF03_{cost}_[C]_period_d FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF03_{cost}_[G]_WBS_ty FF03_{cost}_[J]_EV_meth FF03_{cost}_[I]_inc_BCW FF03_{cost}_[L]_inc_BCW	ate ⁻ oe od /S_dollars	
13. Assumptions					
14. Instructions					
Determine Y items based on Count FF03_{cost}_[D]_WBS • FF03_{cost}_[G]_WBS_typ • FF03_{cost}_[L]_BCWPc < • FF03_{cost}_[E]_EOC = m Determine X items, a subset of Identify FF03_{cost}_[D]_WB • IF FF03{cost}_[L]_inc_BCW FF03_{cost}_[L]_EV_methor	items and, if iden be = WP FF03_{cost}_[K]_ laterial <u>of Y, based on the</u> S and, if identified WP_dollars <> 0 T /S_dollars - 1) > 0.	_DB <u>e following.</u> , with the following ch HEN abs(FF03_{cost	aracteristics.	3_{cost}_[C]_period_date	Y qualifier WBS type EOC X qualifier other 1
Manually count flagged items		U 1 ()			qualifier
 FF03_{cost}_[J]_EV_method 		nt with the manner in v	which the material is planned		operation
Dotormino if X or X/X overade	a tha thrashold				

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 35, Intent: "Material costs must be accurately charged to contract control accounts using recognized, acceptable costing techniques. The need for accurate comparison of material costs to material budgets and earned value requires that the appropriate point of performance measurement for material is established. The generally acceptable points for measuring material progress are:

a. Point of receipt (acceptance),

b. Point of stock (inventory), and

c. Point of issue to work in process (consumption)"

	description of showns and southers offerted		and a second last		and the second
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency
н	H.03.01	(21.03.01) (170)	manual	annually
5. Attribute				
Residual Material				
6. Metric Intent				
This metric confirms that the syst	tem can provide f	or the accountability	of all materials purchased to	include residual inventory for the project
7. Metric Short Description	1			
material accounting system lacks	s accountability			
8. Metric				
X = The contractor's primary m accountability for material pure				al accounting system tracks
N/A				
9. Max. Threshold	10. Max. To	lerance	11. Weight	
0			0.9	
)ata Elements		0.9	
	<u>X artifact(s)</u> material accou		0.9	
12. Needed Artifacts and D	<u>X artifact(s)</u> material accou	unting system	0.9	
0 12. Needed Artifacts and D 13. Assumptions 14. Instructions	<u>X artifact(s)</u> material accou	unting system	0.9	

15. Reference(s)

Page 35, Intent: "Material accounting systems must adhere to these three characteristics:... 1. The material accounting system provides full accountability for all material (including residual inventory) purchased for the project."

Page 35, Management Value: "Residual inventory provides visibility into excess material for the current deliverables available for replacement of failures in the current project or future projects having similar deliverables."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric	D (new, old)	3. Method	4. Frequency
Н	H.04.01	(21.04.01) (171)	manual	annually
5. Attribute				
Material Price/Usage Varianc	e			
6. Metric Intent				
				usage. This metric identifies the count of uation of cost variances and realistic EAC
7. Metric Short Descript	ion			
material price/usage unsubsta	antiated			
8. Metric				
uses and incorporates mate			e EVMS cost tool, where	e the CAM cannot demonstrate VAR analy
uses and incorporates mate N/A Conduct at the CA level if A	erial price and usa	age. WBS level.		e the CAM cannot demonstrate VAR analy
uses and incorporates mate N/A Conduct at the CA level if A 9. Max. Threshold	erial price and usa	age. WBS level.	11. Weight	e the CAM cannot demonstrate VAR analy
uses and incorporates mate N/A Conduct at the CA level if A 9. Max. Threshold 0	erial price and usa CWP is at the CA 10. Max. 1	age. WBS level. F olerance		e the CAM cannot demonstrate VAR analy
uses and incorporates mate N/A Conduct at the CA level if A 9. Max. Threshold 0	erial price and usa CWP is at the CA 10. Max. 1 d Data Element	age. WBS level. F olerance	11. Weight	e the CAM cannot demonstrate VAR analy
uses and incorporates mate N/A Conduct at the CA level if A 9. Max. Threshold 0	erial price and usa CWP is at the CA 10. Max. 1	age. WBS level. Folerance I s	11. Weight	e the CAM cannot demonstrate VAR analy
uses and incorporates mate N/A Conduct at the CA level if A 9. Max. Threshold 0 12. Needed Artifacts an	erial price and usa CWP is at the CA 10. Max. 1 d Data Element X artifact(s) variance ana	age. WBS level. Folerance I s	11. Weight	e the CAM cannot demonstrate VAR analy
uses and incorporates mate N/A Conduct at the CA level if A 9. Max. Threshold 0 12. Needed Artifacts an 13. Assumptions	erial price and usa CWP is at the CA 10. Max. 1 d Data Element X artifact(s) variance and data presen	age. WBS level. Folerance	11. Weight 1.2	
uses and incorporates mate N/A Conduct at the CA level if A 9. Max. Threshold	erial price and usa CWP is at the CA 10. Max. 1 d Data Element X artifact(s) variance and data presen	age. WBS level. Folerance	11. Weight 1.2	
uses and incorporates mate N/A Conduct at the CA level if A 9. Max. Threshold 0 12. Needed Artifacts an 13. Assumptions ACWPs are collected at the V	erial price and usa CWP is at the CA 10. Max. 1 d Data Element X artifact(s) variance ana data presen	age. WBS level. Folerance	11. Weight 1.2	
uses and incorporates mate N/A Conduct at the CA level if A 9. Max. Threshold 0 12. Needed Artifacts an 13. Assumptions ACWPs are collected at the V 14. Instructions	erial price and usa CWP is at the CA 10. Max. 1 d Data Element X artifact(s) variance ana data presen VP level. If ACWPs	age. WBS level. Folerance ts alysis ted by CAM s are collected at the	11. Weight 1.2 CA level, test needs to be	e conducted at CA level.

15. Reference(s)

Page 36, Typical Attribute(s): "Price and usage material analysis where useful. Price Variance = (Earned Value Unit Price - Actual Unit Price) x Actual Quantity. Usage Variance = (Earned Value Quantity - Actual Quantity) x Earned Value Unit Price. Quantity breakouts are most useful on programs procuring multiple items of the same part number, typical for production type contracts."

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	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency	
Н	H.05.01	(20.01.01) (172)	manual	annually	
5. Attribute					
Identification of Unit Costs and	d Lot Costs				
6. Metric Intent					
	by the project. Thi	s metric assesses wi		lot costs in terms of labor, material, o Inting system identifies recurring and	
7. Metric Short Descripti	on				
material accounting system ur	substantiated				
0.00.00					
8. Metric					
8. Metric X = The contractor's materia recurring, unit costs, equiva			their material account	ing system can identify recurring a	ind non-
X = The contractor's materia			their material accounti	ing system can identify recurring a	ind non-
X = The contractor's materia recurring, unit costs, equiva		osts, as required.	their material accounti 11. Weight	ing system can identify recurring a	ind non-
X = The contractor's materia recurring, unit costs, equiva N/A	lent unit or lot co	osts, as required.		ing system can identify recurring a	ind non-
X = The contractor's materia recurring, unit costs, equiva N/A 9. Max. Threshold	lent unit or lot co 10. Max. T	osts, as required. 'olerance	11. Weight	ing system can identify recurring a	nd non-
X = The contractor's materia recurring, unit costs, equiva N/A 9. Max. Threshold 0	Ient unit or lot co 10. Max. T I Data Element <u>X artifact(s)</u> material acco	osts, as required. 'olerance	11. Weight	ing system can identify recurring a	ind non-
X = The contractor's materia recurring, unit costs, equiva N/A 9. Max. Threshold 0 12. Needed Artifacts and	Ient unit or lot co 10. Max. T I Data Element <u>X artifact(s)</u> material acco	osts, as required.	11. Weight	ing system can identify recurring a	ind non-
X = The contractor's materia recurring, unit costs, equiva N/A 9. Max. Threshold 0	Ient unit or lot co 10. Max. T I Data Element <u>X artifact(s)</u> material acco	osts, as required.	11. Weight	ing system can identify recurring a	ind non-
X = The contractor's materia recurring, unit costs, equiva N/A 9. Max. Threshold 0 12. Needed Artifacts and 13. Assumptions	lent unit or lot co 10. Max. T I Data Element <u>X artifact(s)</u> material acc data present	osts, as required.	11. Weight	ing system can identify recurring a	manual
X = The contractor's materia recurring, unit costs, equiva N/A 9. Max. Threshold 0 12. Needed Artifacts and 13. Assumptions 14. Instructions Conduct the following manual	Ient unit or lot co 10. Max. T I Data Element <u>X artifact(s)</u> material acc data present operation(s). presentative canno	osts, as required.	11. Weight 0.8	ing system can identify recurring a	

Page 34, Management Value: "A manufacturing accounting system capable of isolating unit and lot costs in a production environment should allow the flexibility to plan, measure performance, and forecast in a more efficient way when there are multiple projects in the same production line."

Page 34, Intent: "When using equivalent units, or lot costs budgeting, ensure that the accounting system produces actual unit, equivalent unit, or lot costs for purposes of measuring cost performance. Typically this is accomplished through the use of a charge number structure, the manufacturing planning systems, or equivalent capability."

Page 34, Typical Attribute(s): "Enterprise Requirements Planning (ERP) support the identification of unit costs, equivalent unit costs, or lot cost when needed including differentiation of work in process. Expressed in terms of labor, material, other direct cost, indirect cost, as well as distinguishing between recurring (e.g., production) and non-recurring (e.g., design, development, travel, and non-recurring expense) costs. • Identify unit, equivalent unit, or lot costs by type and amount of material as necessary on production-type efforts."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
I	1.02.03	(01.04.02) (173)	automated/manual	initially & semi-annually to align with horizon planning increments

5. Attribute

Subcontractor Integration and Analysis

6. Metric Intent

This metric confirms that the WBS is arranged in a hierarchy and constructed to allow for clear and logical groupings, including identification of subcontractors. This metric determines if work scope elements listing in the WBS dictionary that are being performed by subcontractors are separately identified using the WBS dictionary and/or technical explanations provided by CAMs during discussions.

7. Metric Short Description

HDV-CI not identified

8. Metric

X = Number of WBS dictionary project scope elements performed by a subcontractor in the BL IMS not identified in the WBS dictionary or by the CAM.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		2.2
12. Needed Artifacts and Da	ata Elements	
Y artifact(s) FF04_{schedule} FF01_{WBS} FF03_{cost} FF16_{subKor_perf} WBS dictionary	<u>X artifact(s)</u> subcontractor list WBS dictionary	FF data elements FF01_{WBS}_[C]_WBS FF01_{WBS}_[D]_title FF01_{WBS}_[H]_OBS FF01_{WBS}_[J]_WBS_narrative FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[G]_WBS FF04_{schedule}_[G]_WBS FF04_{schedule}_[AC]_is_HDV FF16_{subKor_perf}_[C]_subcontractor_ID FF16_{subKor_perf}_[E]_task_ID

13. Assumptions

14. Instructions

14. Instructions	
Determine Y items based on the following.	Y
Count	qualifier
FF04_{schedule}_[G]_WBS,FF01_{WBS}_[C]_WBS,FF03_{cost}_[D]_WBS,(FF04_{schedule}_[D]_task_ID,FF16_{subKor_p erf}_[E]_task_ID) items and, if identified, with the following characteristics.	
 FF04_{schedule}_[C]_schedule_type = BL 	sch. type
 FF04_{schedule}_[AC]_is_HDV = yes 	other 1
 FF01_{WBS}_[D]_title <listing></listing> 	other 2
 FF01_{WBS}_[J]_WBS_narrative <listing></listing> 	other 3
FF03 {cost} [E] EOC <listing></listing>	other 4
 FF16_{subKor_perf}_[C]_subcontractor_ID <listing></listing> 	other 5
• FF01_{WBS}_[H]_OBS <listing></listing>	other 6
Determine X items, a subset of Y, based on the following.	x
Manually count flagged items based on the following operation(s).	qualifier
• WBS dictionary project scope elements performed by a HDV-CI subcontractor, exclusive of the prime contractor, not separately identified.	operation

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 4, Intent: "A WBS is a direct representation of the work scope in the project, documenting the hierarchy and description of the tasks to be performed and their relationship to the product deliverables.

Earned Value Management System Guideline Scalability Guide, Process 8: Managing Subcontracted Work Effort, Page 46: "Often, a significant portion of a project is performed by subcontractors. Subcontract arrangements are generally with other companies but may also include other organizational entities within the prime contractor's company. For this process, the term "subcontractor" also refers to interdivisional work; i.e., effort performed by another profit center within the prime contractor's company. While purchased material items are offthe-shelf hardware, subcontracts generally involve one or more of the following elements:

Design and development

Manufacturing effort

• Requirement to meet a performance specification

A defined SOW

Substantial technical, schedule, or cost risk

A subcontract procurement requires more comprehensive management techniques for schedule and technical control than do bill of material (BOM) items. Because of this, the application of EVM to a subcontracted effort can require unique process implementations. From an EVM perspective, a distinction must be made between subcontractors considered to be "major" - those delivering critical, high-risk, or high-dollar items to the project, or "minor" - those that do not meet the definition of a major subcontractor. Major subcontractors are normally expected to provide reports to the project that contain all elements of EV information in support of customer reporting requirements. This includes BCWS, BCWP, ACWP, associated schedule and cost variances, budget at completion, EAC, variances at completion, and analysis of all variances designated as significant. For minor subcontractors, the project is expected to generate this information based on information gathered by the assigned subcontract manager or CAM."

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V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
I	1.02.04	(02.02.01) (174)	automated/manual	initially & semi-annually to align with horizon planning increments

5. Attribute

Subcontractor Integration and Analysis

6. Metric Intent

This metric confirms that major subcontractor and/or inter-organizational work efforts are identified and integrated into the prime contractor's OBS. This metric ensures that work scope being performed exclusively by HDV-CI subcontractors or inter-organizations is appropriate and separately identified by activity, WP or CA as applicable, and assigned to the appropriate OBS element(s).

7. Metric Short Description

HDV-CI subcontractor or inter-organization work unsubstantiated

8. Metric

X = Number of items, where CAM cannot substantiate work scope being performed exclusively by a HDV-CI subcontractor or interorganization is appropriate, is separately identified by activity, WP, or CA as applicable, and is assigned to the appropriate OBS element(s).

Y = Number of HDV-CI WBS identifiers in the BL IMS.

9. Max. Threshold	10. Max. Tolerance	11. Weight
0		2.2
12. Needed Artifacts and	Data Elements	
<u>Y artifact(s)</u> FF04_{schedule} FF01_{WBS} FF03_{cost} FF16_{subKor_perf}	<u>X artifact(s)</u> FF04_{schedule} HDV-CI documentation data presented by CAM	FF data elements FF01_{WBS}_[C]_WBS FF01_{WBS}_[D]_title FF01_{WBS}_[H]_OBS FF01_{WBS}_J]_WBS_narrative FF03_{cost}_[D]_WBS FF03_{cost}_[E]_EOC FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[G]_WBS FF04_{schedule}_[G]_WBS FF04_{schedule}_[AC]_is_HDV FF16_{subKor_perf}_[C]_subcontractor_ID FF16_{subKor_perf}_[E]_task_ID
13. Assumptions		

14. Instructions Y Determine Y items based on the following. qualifier Count FF04_{schedule}_[G]_WBS,FF01_{WBS}_[C]_WBS,FF03_{cost}_[D]_WBS,(FF04_{schedule}_[D]_task_ID,FF16_{subKor_p erf}_[E]_task_ID) items and, if identified, with the following characteristics. sch. type FF04_{schedule}_[C]_schedule_type = BL FF04_{schedule}_[AC]_is_HDV = yes • FF01 {WBS} [D] title <listing> other 2 other 3 FF01_{WBS}_[J]_WBS_narrative <listing> other 4 FF03_{cost}_[E]_EOC <listing> other 5 FF16_{subKor_perf}_[C]_subcontractor_ID <listing> other 6 • FF01 {WBS} [H] OBS <listing> x Determine X items, a subset of Y, based on the following. qualifier Manually count flagged items based on the following operation(s). operation CAM cannot substantiate work scope being performed exclusively by a HDV-CI subcontractor or inter-organization is appropriate, is separately identified by activity, WP, or CA as applicable, and is assigned to the appropriate OBS element(s).

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 6, Intent: "The OBS identifies the organization responsible for each segment of work, including subcontracted and inter-organizational effort. The assignment of lower-level work segments to responsible managers should provide key control points for management purposes. When effort is subcontracted, the applicable subcontractor is identified and related to the appropriate WBS element(s) and/or organization charged with acquiring the subcontracted item."

EIA-748D, page 5, section 2.1 (b): "The OBS identifies the organization responsible for each segment of work, including subcontracted and inter-organizational effort. The assignment of lower-level work segments to responsible managers should provide key control points for

management purposes. When effort is subcontracted, the applicable subcontractor is identified and related to the appropriate WBS element(s) and/or organization charged with acquiring the subcontracted item."

16. Rev	ision Block				
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric II	D (new, old)	3. Method	4. Frequency
1	1.02.05	(03.02.01) (175)	automated	monthly

5. Attribute

Subcontractor Integration and Analysis

6. Metric Intent

This metric confirms that the planning, scheduling, budgeting, work authorization, and cost accumulation systems are integrated with each other as appropriate and consider major subcontractor work scope with EVMS flow-down requirements, via common data elements and a common coding structure through the WBS and the OBS at the CA level (at a minimum) through the total project level. This metric with the integration of the subcontractor IPMR F1 and prime contractor cost system ensures that subcontractor BCWS, BCWP, ACWP, BAC, and EAC information are considered and reconcile to the prime contractor cost system for all subcontractor work scope.

7. Metric Short Description

subcontractor BCWPc, ACWPc, DB, and EAC, BL IMS <> EVMS cost tool

8. Metric

X = Number of incomplete subcontractor WBSs in the BL IMS, where BL IMS BCWSc, BCWPc, ACWPc, DB, and EAC <> EVMS cost tool BCWSc, BCWPc, ACWPc, DB, and EAC.

Y = Number of incomplete subcontractor WBSs in the BL IMS.

9. Max. Threshold	10. Max. Tolerance	11. Weight	
5.0%	1000	2.2	
12. Needed Artifacts an	nd Data Elements		
<u>Y_artifact(s)</u> FF16_{subKor_perf} FF04_{schedule}	<u>X artifact(s)</u> FF03_{cost} FF16_{subKor_perf}	FF data elementsFF03_{cost}_[D]_WBSFF03_{cost}_[K]_BCWScFF03_{cost}_[K]_DBFF03_{cost}_[L]_BCWPcFF03_{cost}_[M]_ACWPcFF03_{cost}_[N]_ETCcFF04_{schedule}_[C]_schedule_typeFF04_{schedule}_[D]_task_IDFF04_{schedule}_[E]_task_typeFF04_{schedule}_[G]_WBSFF04_{schedule}_[T]_AS_dateFF04_{schedule}_[U]_AF_dateFF16_{subKor_perf}_[E]_task_IDFF16_{subKor_perf}_[G]_cum_BCWSFF16_{subKor_perf}_[G]_cum_ACWPFF16_{subKor_perf}_[I]_BACFF16_{subKor_perf}_[J]_EAC	
13. Assumptions			
WBS WP or PP does not hav	e more than 1 subcontractor.		
14. Instructions			
with the following characterisFF04_{schedule}_[C]_sch	WBS,(FF16_{subKor_perf}_[E]_task tics. edule_type = BL	<_ID,FF04_{schedule}_[D]_task_ID) items and, if identified,	Y qualifier sch. type incomplete
 IF FF04_{schedule}_[E]_task_type = M THEN FF04_{schedule}_[U]_AF_date = null AND FF04_{schedule}_[T]_AS_date = null IF FF04_{schedule}_[E]_task_type <> M THEN FF04_{schedule}_[U]_AF_date = null FF16_{subKor_perf}_[E]_task_ID <> null 			
Determine X items, a subset of Y, based on the following.			
	S and, if identified, with the followin	g characteristics.	qualifier
Count flagged items based o	n the following operation(s).		qualifier
OR	um_BCWS <> FF03_{cost}_[K]_BC		operation

FF16_{subKor_perf}_[G]_cum_BCWP <> FF03_{cost}_[L]_BCWPc OR

FF16_{subKor_perf}_[H]_cum_ACWP <> FF03_{cost}_[M]_ACWPc

OR FF16_{subKor_perf}_[I]_BAC <> FF03_{cost}_[K]_DB

OR FF16_{subKor_perf}_[J]_EAC <> FF03_{cost}_[M]_ACWPc + FF03_{cost}_[N]_ETCc

15. Reference(s)

Page 7, Intent: "Integrate the technical, schedule, and cost elements of the project through project plans that include schedules, budgets, authorization of work, and accumulation of costs, all consistent with the budget plan."

Page 7 Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data elements. Examples include cross-references between the statement of work and WBS, the master schedule and performance measurement tasks, and the detail schedules and control account plans."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sections 12 and 13.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

				U.String
1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
I	1.02.06	(03.02.02) (176)	automated	monthly
5. Attribute				
Subcontractor Integration and	Analysis			
6. Metric Intent				
This metric confirms that the planning, scheduling, budgeting, work authorization, and cost accumulation systems are integrated with each other as appropriate and consider major subcontractor work scope, via common data elements and a common coding structure through the WBS and the OBS at the CA level (at a minimum) through the total project level. This metric with the integration of the subcontractor schedule and prime contractor schedule system (at the activity level) ensures that subcontractor BL start and finish date information align to corresponding prime contractor schedule system FC start and finish date information for all incomplete subcontractor work scope.				
start or finish dates, subcontra	ctor schedule <> E	BL IMS		
8. Metric				
X = Number of incomplete si <> BL IMS start or finish date		Ss in the subcontra	ctor's schedule, wh	here subcontractor schedule start or finish dates
Y = Number of incomplete se	ubcontractor WB	Ss in the subcontra	ctor's schedule.	
9. Max. Threshold	10. Max. T	olerance	11. Weight	
5.0%			2.2	

12. Needed Artifacts an	2. Needed Artifacts and Data Elements					
<u>Y artifact(s)</u> FF16_{subKor_perf}	<u>X artifact(s)</u> FF04_{schedule} FF16_{subKor_perf}	FF data elements FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF16_{subKor_perf}_[E]_task_ID FF16_{subKor_perf}_[K]_BL_start_date FF16_{subKor_perf}_[L]_BL_finish_date FF16_{subKor_perf}_[P]_actual_finish_date				

13. Assumptions

WBS WP or PP does not have more than 1 subcontractor.

14. Instructions

Determine Y items based on the following.	Y
Count FF16 {subKor perf} [E] task ID items and, if identified, with the following characteristics.	qualifier
 FF16_{subKor_perf}_[P]_actual_finish_date = null 	incomplete
Determine X items, a subset of Y, based on the following.	x
Identify FF04_{schedule}_[D]_task_ID and, if identified, with the following characteristics.	qualifier
 FF04_{schedule}_[C]_schedule_type = BL 	sch. type
Count flagged items based on the following operation(s).	qualifier
 FF16_{subKor_perf}_[K]_BL_start_date <> FF04_{schedule}_[L]_ES_date 	operation
OR	

FF16_{subKor_perf}_[L]_BL_finish_date <> FF04_{schedule}_[M]_EF_date

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 7, Intent: "Integrate the technical, schedule, and cost elements of the project through project plans that include schedules, budgets, authorization of work, and accumulation of costs, all consistent with the budget plan."

Page 7, Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data elements. Examples include cross-references between the statement of work and WBS, the master schedule and performance measurement tasks, and

the detail schedules and control account plans."

Page 7, Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data elements."

Page 7, Intent: "The work tasks are assigned to a WBS and OBS and are traceable to the planning and budgeting system and the cost collection system. Establishment of a unique coding structure facilitates the linkage between the planning, scheduling, budgeting, work authorization, cost accumulation, and performance measurement processes."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
I	1.02.07	(03.02.03) (177)	automated	monthly
5. Attribute				
Subcontractor Integration and	Analysis			
6. Metric Intent				
•	0,	0, 0, 0,	<i>'</i>	accumulation systems are integrated with each

other as appropriate and consider major subcontractor work scope, via common data elements and a common coding structure through the WBS and the OBS at the CA level (at a minimum) through the total project level. This metric with the integration of the subcontractor schedule and prime contractor schedule system (at the activity level) ensures that subcontractor FC start and finish date information align to corresponding prime contractor schedule system FC start and finish date information for all incomplete subcontractor work scope.

7. Metric Short Description

start or finish dates, subcontractor schedule <> FC IMS

8. Metric

X = Number of incomplete subcontractor activities in the subcontractor's schedule, where subcontractor schedule start or finish dates <> FC IMS start or finish dates.

Y = Number of incomplete subcontractor WBSs in the subcontractor's schedule.

9. Max. Threshold	10. Max. Tolerance	11. Weight
5.0%		2.2
12. Needed Artifacts an	nd Data Elements	
<u>Y artifact(s)</u> FF16_{subKor_perf}	<u>X artifact(s)</u> FF04_{schedule} FF16_{subKor_perf}	<u>FF data elements</u> FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF16_{subKor_perf}_[E]_task_ID FF16_{subKor_perf}_[M]_FC_start_date FF16_{subKor_perf}_[N]_FC_finish_date FF16_{subKor_perf}_[P]_actual_finish_date
12 Accumutions		

13. Assumptions

WBS WP or PP does not have more than 1 subcontractor.

14. Instructions

Determine Y items based on the following.	Y
Count FF16 {subKor perf} [E] task ID items and, if identified, with the following characteristics.	qualifier
 FF16_{subKor_perf}_[P]_actual_finish_date = null 	incomplete
Determine X items, a subset of Y, based on the following.	x
Identify FF04_{schedule}_[D]_task_ID and, if identified, with the following characteristics.	qualifier
 FF04_{schedule}_[C]_schedule_type = FC 	sch. type
Count flagged items based on the following operation(s).	qualifier
 FF16_{subKor_perf}_[M]_FC_start_date <> FF04_{schedule}_[L]_ES_date 	operation
OR	

FF16_{subKor_perf}_[N]_FC_finish_date <> FF04_{schedule}_[M]_EF_date

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 7, Intent: "Integrate the technical, schedule, and cost elements of the project through project plans that include schedules, budgets, authorization of work, and accumulation of costs, all consistent with the budget plan."

Page 7 Typical Attribute(s): "Provide a logical framework that links the products of the management processes through common data elements.

Examples include cross-references between the statement of work and WBS, the master schedule and performance measurement tasks, and the detail schedules and control account plans."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric I	D (new, old)	3. Method	4. Frequency
I	1.02.08	(06.04.04) (178)	automated/manual verification	initially & semi-annually to align with horizon planning increments

5. Attribute

Subcontractor Integration and Analysis

6. Metric Intent

This metric test confirms the network schedule describes the vertical integration of work, and the consistency of data between various levels of schedules including subcontractor and field level schedules. This metric with the schedule system ensures that there is subcontractor schedule integration points, key handoffs, and deliverables in the prime contractor BL IMS.

7. Metric Short Description

BL IMS missing key subcontractor activities

8. Metric

X = Number of activities (e.g., integration points, key handoffs, or deliverables per negotiated subcontract) in the subcontractor's schedule, not in the prime's BL IMS.

Y = Number of activities (e.g., integration points, key handoffs, or deliverables per negotiated subcontract) in the subcontractor's schedule.

0 2.2 12. Needed Artifacts and Data Elements	
12. Needed Artifacts and Data Elements	
Y artifact(s) X artifact(s) FF data elements FF16_{subKor_perf} FF04_{schedule} FF04_{schedule}_[C]_schedule_type FF04_{schedule}_[D]_task_ID FF04_{schedule}_[L]_ES_date FF04_{schedule}_[M]_EF_date FF16_{subKor_perf}_[E]_task_ID FF16_{subKor_perf}_[L]_task_ID FF16_{subKor_perf}_[L]_ES_date	

13. Assumptions

14. Instructions	
Determine Y items based on the following.	Y
Count FF16_{subKor_perf}_[E]_task_ID items and, if identified, with the following characteristics.	qualifier
Determine X items, a subset of Y, based on the following.	x
Identify FF04_{schedule}_[D]_task_ID and, if identified, with the following characteristics.	qualifier
 FF04_{schedule}_[C]_schedule_type = BL 	sch. type
Count flagged items based on the following operation(s).	qualifier
 FF04_{schedule}_[D]_task_ID = null 	operation
OR	
FF16_{subKor_perf}_[K]_BL_start_date <> FF04_{schedule}_[L]_ES_date	
OR FF16 {subKor perf} [L] BL finish date <> FF04 {schedule} [M] EF date	
	manual
Conduct the following manual operation(s).	
Verify manually.	operation
Determine if X or X/Y exceeds the threshold.	

15. Reference(s)

Page 11, Intent: "While no specific scheduling software is required, there must be horizontal and vertical integration of the schedule through the framework of the WBS and OBS."

Page 12, Typical Attribute(s): "...The schedule links key detail work packages and planning packages (or lower-level tasks/activities) with summary activities and milestones."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

				- Contraction of the second se
1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
J	J.02.01	(06.09.01) (179)	automated	initially & semi-annually to align with horiz planning increments
5. Attribute				
Risk Integration				
6. Metric Intent				
	•	v ,		ne BL IMS and that these steps align with rate risk mitigation activities are listed in the r
7. Metric Short Descript	ion			
risks, index <> BL IMS				
8. Metric				
X = Number of high and mo	derate risks in ris	k register, not in th	e BL IMS.	
Y = Number of high and mo	derate risks in ris	sk register.		
9. Max. Threshold	10. Max. 1	Tolerance	11. Weight	
0			2.8	
12. Needed Artifacts an	d Data Element	ts		
<u>Y artifact(s)</u> FF19_{risk}	<u>X artifact(s)</u> FF04_{sche	dule}	FF data elements FF04_{schedule}_[C]_s FF04_{schedule}_[AG] FF19_{risk_log}_[C]_ris FF19_{risk_log}_[G]_ris FF19_{risk_log}_[H]_ris	_risk_ID sk_ID sk_assessment
13. Assumptions				
High and moderate risks are i	red or yellow risk a	ssessments.		
14. Instructions				
Determine Y items based on t	the following.			Ŷ
Count FF19_{risk_log}_[C]_risk	sk_ID items and, if	identified, with the fo	llowing characteristics.	qualifier
 FF19_{risk_log}_[H]_risk_h 				other 1
 FF19_{risk_log}_[G]_risk_a 		-		other 2
Determine X items, a subset of			and a second	X qualifier
Identify FF04_{schedule}_[AG • FF04 {schedule} [C] sche		ienulied, with the follo	owing characteristics.	sch.type
 FF04_{schedule}_[C]_sche Count flagged items based or 		ration(s).		qualifier
 FF04_{schedule}_[AG]_risl 	0 1			operation
Determine if X or X/Y exceeds	-			

15. Reference(s)

Page 11, Intent: "The integrated master schedule must agree with the project objectives, include all key events, and reflect a logical sequence of events, taking into account identified risks and opportunities."

Page 12, Typical Attribute(s): "The schedule network should include risk mitigation activities, as appropriate."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.09.02 to 06.09.01.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric	ID (new, old)	3. Method	4. Frequency
J	J.02.02	(06.09.02) (180)	automated	initially & semi-annually to align with horizo planning increments
5. Attribute				
Risk Integration				
6. Metric Intent				
				he FC IMS and that these steps align with rate risk mitigation activities are listed in the ris
7. Metric Short Descript	ion			
risks, index <> FC IMS				
8. Metric				
X = Number of high and mod	derate risks in ri	sk register, not in the	e FC IMS.	
Y = Number of high and mo	derate risks in ri	sk register.		
9. Max. Threshold	10. Max. '	Tolerance	11. Weight	
0			2.8	
12. Needed Artifacts and	d Data Elemen	ts		
Y artifact(s)	X artifact(s)		FF data elements	
FF19_{risk}	FF04_{sche	edule}	FF04_{schedule}_[C] s FF04_{schedule}_[AG] FF19_{risk_log}_[C]_ris FF19_{risk_log}_[G]_ris FF19_{risk_log}_[G]_ris	_risk_ID sk_ID sk_assessment
13. Assumptions				
High and moderate risks are r	ed or yellow risk a	assessments.		
14. Instructions				
Determine Y items based on t	he following.			Y
Count FF19_{risk_log}_[C]_ris	sk_ID items and, i	f identified, with the fo	llowing characteristics.	qualifier
 FF19_{risk_log}_[H]_risk_h 	0 0			other 1 other 2
 FF19_{risk_log}_[G]_risk_a 	ssessment = red	or yellow		
Determine X items, a subset of				X qualifier
Identify FF04_{schedule}_[AG		dentified, with the folio	owing characteristics.	quanner sch. type
 FF04_{schedule}_[C]_sche Count flagged items based on 		aration(s)		qualifier
 FF04 {schedule} [AG] risk 	0 1			operation
Determine if X or X/Y exceeds	-			
Determine if X of X/T exceeds				

15. Reference(s)

Page 11, Intent: "The integrated master schedule must agree with the project objectives, include all key events, and reflect a logical sequence of events, taking into account identified risks and opportunities."

Page 12, Typical Attribute(s): "The schedule network should include risk mitigation activities, as appropriate."

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list. Re- ID'ed from 06.09.01 to 06.09.02.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

1. Process Category	2. Metric ID (new, old)	3. Method	4. Frequency
J	J.02.03 (27.05.01) (181)	automated/manual verification	quarterly
5. Attribute			
Risk Integration			
6. Metric Intent			
	PM's EACs (worst, most likely, and be st likely EAC value from IPMR F1, blo		
7. Metric Short Descripti	on		
nost likely EAC unsubstantiat	ed		а
8. Metric			
2. IPMR F1 EACs are not risl	<> EVMS cost tool EAC for project, k based, or s difference between IPMR F1 most		AC for project.
9. Max. Threshold	10. Max. Tolerance	11. Weight	
0	1000	2.8	
12. Needed Artifacts and	d Data Elements		
	X artifact(s) FF03_{cost} FF07_{IPMR_header} FF14_{CAM_VAR} FF18_{IPMR_F5} IPMR F5	FF data elements FF03_{cost}_[D]_WBS FF03_{cost}_[G]_WBS_type FF03_{cost}_[M]_ACWPc FF03_{cost}_[N]_ETCc FF07_{IPMR_header}_[X]_F1_6 FF07_{IPMR_header}_[AC]_F1_ FF14_{CAM_VAR}_[J]_VAC_nar FF18_{IPMR_F5}_[C]_F5_narrat FF18_{IPMR_F5}_[D]_F5_narrat	8_d_UB_bgt rative tive_type
13. Assumptions			
14. Instructions			
Determine X items, a subset o	of Y, based on the following.		x
dentify FF03_{cost}_[D]_WBS	and, if identified, with the following c	haracteristics.	qualifier
 FF03_{cost}_[G]_WBS_type 			other 1
Sum flagged items based on t			qualifier
 FF03_{cost}_[M]_ACWPc + FF07_{IPMR_header}_[X]_ 	· FF03_{cost}_[N]_ETCc + FF07_{IPN F1_6_c_EAC_likely	/IR_header}_[AC]_F1_8_d_UB_bgt <	<> operation
Conduct the following manual	operation(s).		manual
. If floarad			operation

• If flagged,

1. EAC is not risk based, or

2. Difference is not discussed in FF14_{CAM_VAR}_[J]_VAC_narrative and FF18_{IPMR_F5}_[D]_F5_narrative_text where FF18_{IPMR_F5}_[C]_F5_narrative_type = EAC.

Determine if X or X/Y exceeds the threshold.

15. Reference(s)

Page 44, Typical Attribute(s): "EAC results are communicated to the customer in internal reports and in funding documents."

16. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by		
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank		
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank		
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank		
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank		
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank		

operation

 $\mathbf{\dot{\mathbf{X}}}$

1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency
J	J.02.04	(27.05.02) (182)	automated/manual verification	quarterly
5. Attribute				
Risk Integration				
6. Metric Intent				
			etion are reconcilable with cost data are listed on the IPMR F1 for blocks	1 0
7. Metric Short Descriptio	on			
best, likely, and worst case EAC	Cs unsubstantiated			а
8. Metric				
X = 1. The best, likely, and worst 2. PM does not have rationale N/A				
9. Max. Threshold	10. Max. Tol	erance	11. Weight	
0			2.8	
12. Needed Artifacts and	Data Elements			
	<u>X artifact(s)</u> FF07_{IPMR_h IPMR F1	eader}	FF data elements FF07_{IPMR_header}_[B]_CPP_s FF07_{IPMR_header}_[V]_F1_6_ FF07_{IPMR_header}_[W]_F1_6_ FF07_{IPMR_header}_[X]_F1_6_	a_EAC_best _b_EAC_worst
13. Assumptions				
14. Instructions				
Determine X items, a subset of Identify FF07_{IPMR_header}_I Count flagged items based on t • FF07_{IPMR_header}_[V]_F OR FF07_{IPMR_header}_[W]_F OR FF07_{IPMR_header}_[X]_F Conduct the following manual o • 1. The best, likely, and worst 2. PM does not have rational	[B]_CPP_status_da he following operati 1_6_a_EAC_best = 1_6_b_EAC_worst 1_6_c_EAC_likely = pperation(s). case EACs are not	te and, if identified on(s). null = null = null identified in the IP		X qualifier operation manual operation
Determine if X or X/Y exceeds t	the threshold.			

15. Reference(s)

Page 44, Typical Attribute(s): "EAC results are communicated to the customer in internal reports and in funding documents."

16. Revision Block							
rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by		
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank		
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank		
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank		
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank		
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank		

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1. Process Category	2. Metric ID	(new, old)	3. Method	4. Frequency	
J	J.02.05	(27.05.03) (183)	manual	annually	
5. Attribute					
Risk Integration					
6. Metric Intent					
				h cost data reported to the governm istent with reporting to the governm	
7. Metric Short Description	n				
IPMR F1 EACs <> EAC reported	d to leadership or l	DOE			
8. Metric					
X = The monthly EACs in the I monthly reporting to DOE or c			sive EAC are not consi	stent or cannot be reconciled wit	h the
N/A					
	10. Max. To	lerance	11. Weight		
	10. Max. To	lerance	11. Weight 2.8		
N/A 9. Max. Threshold 0 12. Needed Artifacts and I		lerance	•		
9. Max. Threshold 0	Data Elements X artifact(s) IPMR F1 monthly perfor documents annual compre	mance review	•		
9. Max. Threshold 0	Data Elements X artifact(s) IPMR F1 monthly perfor documents annual compre	mance review shensive EAC	•		
9. Max. Threshold 0 12. Needed Artifacts and I	Data Elements X artifact(s) IPMR F1 monthly perfor documents annual compre	mance review shensive EAC	•		
9. Max. Threshold 0 12. Needed Artifacts and I 13. Assumptions	Data Elements <u>X artifact(s)</u> IPMR F1 monthly perfor documents annual compre- data presented peration(s). ACs and the annual	mance review chensive EAC d by contractor	2.8	cannot be reconciled with the	manual operation
9. Max. Threshold 0 12. Needed Artifacts and I 13. Assumptions 14. Instructions Conduct the following manual op • The monthly PM and CAM EA	Data Elements <u>X artifact(s)</u> IPMR F1 monthly perfor documents annual compre- data presented peration(s). ACs and the annual contractor's leaders	mance review chensive EAC d by contractor	2.8	cannot be reconciled with the	

Page 44, Typical Attribute(s): "EAC results are communicated to the customer in internal reports and in funding documents."

16. Revision Block

rev. no.	description of change and sections affected	date prepared	prepared by	date approved	approved by
V04.00	Updated for release. See track changes.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01	Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank
V01.00	Updated for release. All.	2019-01-31	PM-30	2019-01-31	Melvin Frank

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1. Proc	ess Category	2. Metric ID	(new, old)	3. Method		4. Frequency	1
		reserved 03.01.06	(03.01.06) ()				
5. Attril	bute						
6. Metri	ic Intent						
7. Metri	ic Short Description	1					а
8. Metri	ic						a
9. Max.	Threshold	10. Max. To	lerance	11. Weigh	t		
12. Nee	eded Artifacts and D	ata Elements					
13. Ass	umptions						
14. Inst	ructions						
<u>Determin</u>	e if X or X/Y exceeds the	e threshold.					
15. Ref	erence(s)						
16. Rev	ision Block						
rev. no.	description of change a	nd sections affect	ed date p	repared	prepared by	date approved	approved by
V04.00	Updated for release. Rem	noved metric.	2022-	-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See	itemized revision li	st. 2020-	-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Sect	tion 13.	2019-	-07-31	PM-30	2019-07-31	Melvin Frank

2019-03-13

2019-01-31

PM-30

PM-30

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

V01.01 Updated through 2019-03-13. Minor corrections.

V01.00 Updated for release. All.

1. Process Category 2	2. Metric ID	(new, old)	3. Method	I	4. Frequency	,
	eserved)3.01.07	(03.01.07) ()				
5. Attribute						
6. Metric Intent						
7. Metric Short Description						
Reserved.						
8. Metric						
9. Max. Threshold 1	0. Max. Tol	erance	11. Weigh	ıt		
12. Needed Artifacts and Data	Elements					
13. Assumptions						
14. Instructions						
Determine if X or X/Y exceeds the th	reshold.					
15. Reference(s)						
16. Revision Block						
rev. no. description of change and s	ections affecte	d date pi	repared	prepared by	date approved	approved by
V04.00 Updated for release. Remove	d metric.	2022-	-01-21	PM-30	2022-01-21	Melvin Frank
V03.00 Updated for release. See item	nized revision lis	t. 2020-	-02-10	PM-30	2020-02-10	Melvin Frank
V02.00 Updated for release. Sections	12 and 13.	2019-	-07-31	PM-30	2019-07-31	Melvin Frank

2019-03-13

2019-01-31

PM-30

PM-30

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

V01.01 Updated through 2019-03-13. Minor corrections.

1. Proce	ess Category	2. Metric II) (new, old)	3. Metho	d	4. Frequence	≎y
		reserved 03.01.08	(03.01.08) ()				
5. Attril	bute						
6. Metri	ic Intent						
7. Metri	ic Short Description						
8. Metri	ic						
9. Max.	Threshold	10. Max. To	olerance	11. Weig	ht		
		0					
12. Nee	eded Artifacts and D	ata Elements	i				
13. Ass	umptions						
14. Inst	ructions						
<u>Determin</u>	e if X or X/Y exceeds the	e threshold.					
15. Ref	erence(s)						
16. Rev	ision Block						
rev. no.	description of change an	d sections affect	ed date p	prepared	prepared by	date approved	approved by
V04.00	Updated for release. Rem	oved metric.	2022	2-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See	itemized revision I	ist. 2020	0-02-10	PM-30	2020-02-10	Melvin Frank

2019-07-31

2019-03-13

2019-01-31

PM-30

PM-30

PM-30

2019-07-31

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

Melvin Frank

V02.00 Updated for release. None.

V01.00 Updated for release. All.

V01.01 Updated through 2019-03-13. Minor corrections.

1. Proce	ess Category	2. Metric ID	(new, old)	3. Metho	d	4. Frequenc	зy
		reserved 06.01.03	(06.01.03) ()				
5. Attrik	bute						
6. Metri	ic Intent						
7. Metri	ic Short Description						
Reserved	1.						а
8. Metri	ic						
9. Max.	Threshold	10. Max. To	lerance	11. Weig	ht		
12. Nee	eded Artifacts and D	ata Elements					
13. Ass	umptions						
14. Inst	ructions						
Determin	e if X or X/Y exceeds the	e threshold.					
15. Refe	erence(s)						
16. Rev	ision Block						
rev. no.	description of change an	d sections affecte	ed date p	prepared	prepared by	date approved	approved by
V04.00	Updated for release. Rem	oved metric.	2022	2-01-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See metric.	temized revision lis	st. New 2020	0-02-10	PM-30	2020-02-10	Melvin Frank

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1. Proce	ess Category	2. Metric ID	(new, old)	3. Method		4. Frequency	
		reserved 06.05.05	(06.05.05) ()				
5. Attrik	bute						
6. Metri	ic Intent						
7. Metri	ic Short Description						
8. Metri	ic						a
	-		-				
9. Max.	Threshold	10. Max. To	lerance	11. Weight			
12. Nee	ded Artifacts and Da	ata Elements					
13. Ass	umptions						
14. Inst	ructions						
<u>Determin</u>	e if X or X/Y exceeds the	threshold.					
15. Refe	erence(s)						
16. Rev	ision Block						
rev. no.	description of change an	d sections affecte	ed date pre	pared pr	repared by da	te approved	approved by
V04.00	Updated for release. Remo	oved metric.	2022-0	1-21	PM-30	2022-01-21	Melvin Frank
V03.00	Updated for release. See i	temized revision lis	st. 2020-0	2-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. Section	ons 12 and 13.	2019-0	7-31	PM-30	2019-07-31	Melvin Frank

2019-03-13

2019-01-31

PM-30

PM-30

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

V01.01 Updated through 2019-03-13. Minor corrections.

1. Process Category 2	. Metric ID	(new, old)	3. Method	I	4. Frequency	1
	eserved 6.08.03	(06.08.03) ()				
5. Attribute						
6. Metric Intent						
7. Metric Short Description						
Reserved.						
8. Metric						
9. Max. Threshold 1	0. Max. Tol	erance	11. Weigh	t		
12. Needed Artifacts and Data	Elements					
13. Assumptions						
14. Instructions						
Determine if X or X/Y exceeds the thr	eshold.					
15. Reference(s)						
16. Revision Block						
rev. no. description of change and se	ections affecte	d date pre	epared	prepared by	date approved	approved by
V04.00 Updated for release. Removed	d metric.	2022-0	01-21	PM-30	2022-01-21	Melvin Frank
V03.00 Updated for release. See itemi	ized revision lis	t. 2020-0	02-10	PM-30	2020-02-10	Melvin Frank
V02.00 Updated for release. None.		2019-0	07-31	PM-30	2019-07-31	Melvin Frank

2019-03-13

2019-01-31

PM-30

PM-30

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

V01.01 Updated through 2019-03-13. Minor corrections.

1. Process Category 2	2. Metric ID	(new, old)	3. Method	1	4. Frequency	y
	eserved 6.08.04	(06.08.04) ()				
5. Attribute						
6. Metric Intent						
7. Metric Short Description						
Reserved.						
8. Metric						
9. Max. Threshold 1	0. Max. Tol	erance	11. Weigh	nt		
12. Needed Artifacts and Data	Elements					
13. Assumptions						
14. Instructions						
Determine if X or X/Y exceeds the th	reshold.					
15. Reference(s)						
16. Revision Block						
rev. no. description of change and s	ections affecte	d date pr	epared	prepared by	date approved	approved by
V04.00 Updated for release. Remove	d metric.	2022-	01-21	PM-30	2022-01-21	Melvin Frank
V03.00 Updated for release. See item	nized revision lis	t. 2020-	02-10	PM-30	2020-02-10	Melvin Frank
V02.00 Updated for release. None.		2019-	07-31	PM-30	2019-07-31	Melvin Frank

2019-03-13

2019-01-31

PM-30

PM-30

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

V01.01 Updated through 2019-03-13. Minor corrections.

1. Process Category	2. Metric ID (new	, old) 3. Meth	od	4. Frequen	cy
		2.01) ()			
	10.02.01				
5. Attribute					
6. Metric Intent					
7. Metric Short Descript	ion				
Reserved.					а
8. Metric					
9. Max. Threshold	10. Max. Tolerand	ce 11. Wei	abt		
5. Max. Theshold			gin		
12. Needed Artifacts and	d Data Elements				
13. Assumptions					
14. Instructions					
Determine if X or X/Y exceeds	s the threshold				
	<u>s ine inresheria.</u>				
15. Reference(s)					
16. Revision Block					
rev. no. description of chang	e and sections affected	date prepared	prepared by	date approved	approved by
V04.00 Updated for release. I	Removed metric.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00 Updated for release.	See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank

2019-07-31

2019-03-13

2019-01-31

PM-30

PM-30

PM-30

2019-07-31

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

Melvin Frank

V02.00 Updated for release. None.

V01.00 Updated for release. All.

V01.01 Updated through 2019-03-13. Minor corrections.

1. Process Category	2. Metric ID (new	, old) 3. Meti	nod	4. Frequen	cy
		3.01) ()			
	10.03.01				
5. Attribute					
6. Metric Intent					
7. Metric Short Descripti	on				
Reserved.					a
8. Metric					
9. Max. Threshold	10. Max. Tolerand	ce 11. We	iaht		
5. Max. Threshold			igitt		
12. Needed Artifacts and	l Data Elements				
13. Assumptions					
14. Instructions					
Determine if X or X/Y exceeds	the threshold				
15. Reference(s)					
16. Revision Block					
rev. no. description of change	and sections affected	date prepared	prepared by	date approved	approved by
V04.00 Updated for release. R	Removed metric.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00 Updated for release. S	ee itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank

2019-07-31

2019-03-13

2019-01-31

PM-30

PM-30

PM-30

2019-07-31

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

Melvin Frank

V02.00 Updated for release. None.

V01.00 Updated for release. All.

V01.01 Updated through 2019-03-13. Minor corrections.

1. Process Category 2. Metric ID (new	r, old) 3. Metho	d	4. Frequen	cy
reserved (10.09 10.05.01	5.01) ()			
5. Attribute				
6. Metric Intent				
7. Metric Short Description				
Reserved.				
8. Metric				
9. Max. Threshold 10. Max. Toleran	ce 11. Weig	ht		
12. Needed Artifacts and Data Elements				
13. Assumptions				
14. Instructions				
Determine if X or X/Y exceeds the threshold.				
15. Reference(s)				
16. Revision Block				
rev. no. description of change and sections affected	date prepared	prepared by	date approved	approved by
V03.00 Updated for release. Removed metric.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00 Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01 Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank

2019-01-31

PM-30

2019-01-31

Melvin Frank

					4
1. Process Category	2. Metric ID (new	v, old) 3. Met	hod	4. Frequen	су
	reserved (10.0 10.07.02	7.02) ()			
5. Attribute					
6. Metric Intent					
7. Metric Short Descript	ion				
					а
8. Metric					
9. Max. Threshold	10. Max. Toleran	44 W	-:		
	TU. Max. Toleran	ice 11. Wo	eignt		
0					
12. Needed Artifacts an	d Data Elements				
13. Assumptions					
14. Instructions					
Determine if X or X/Y exceed	s the threshold.				
15. Reference(s)					
16. Revision Block					
rev. no. description of chang	e and sections affected	date prepared	prepared by	date approved	approved by
V04.00 Updated for release.	Removed metric.	2022-01-21	PM-30	2022-01-21	Melvin Frank
V03.00 Updated for release.	See itemized revision list.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00 Updated for release.	None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01 Updated through 2019	9-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank

2019-01-31

PM-30

2019-01-31

Melvin Frank

1. Process Category 2. Me	tria ID (now old)				
In Frocess valegory Z. Me	tric ID (new, old)	3. Method		4. Frequency	
reser 19.01					
5. Attribute					
6. Metric Intent					
7. Metric Short Description					
Reserved.					
8. Metric					
9. Max. Threshold 10. M	ax. Tolerance	11. Weight			
12. Needed Artifacts and Data Ele	ments				
13. Assumptions					
14. Instructions					
Determine if X or X/Y exceeds the thresho	ld.				
15. Reference(s)					
16. Revision Block					
rev. no. description of change and section	is affected date	prepared pr	epared by	date approved	approved by
V03.00 Updated for release. Removed metr	ic. 20	20-02-10	PM-30	2020-02-10	Melvin Frank
V02.00 Updated for release. None.	20	19-07-31	PM-30	2019-07-31	Melvin Frank
V01.01 Updated through 2019-03-13. Minor	corrections. 20	19-03-13	PM-30	2019-03-14	Melvin Frank

2019-01-31

PM-30

2019-01-31

Melvin Frank

I. Process Category 2. Metric ID (new	v, old) 3. Metho	d	4. Frequen	cy
reserved (24.0 24.01.02)1.02) ()			
5. Attribute				
). Metric Intent				
7. Metric Short Description				
Reserved.				
B. Metric				
). Max. Threshold 10. Max. Toleran	nce 11. Weig	ht		
2. Needed Artifacts and Data Elements				
3. Assumptions				
4. Instructions				
Determine if X or X/Y exceeds the threshold.				
5. Reference(s)				
6. Revision Block				
rev. no. description of change and sections affected	date prepared	prepared by	date approved	approved by
V03.00 Updated for release. Removed metric.	2020-02-10	PM-30	2020-02-10	Melvin Frank
V02.00 Updated for release. None.	2019-07-31	PM-30	2019-07-31	Melvin Frank
V01.01 Updated through 2019-03-13. Minor corrections.	2019-03-13	PM-30	2019-03-14	Melvin Frank

2019-01-31

PM-30

2019-01-31

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1. Proce	ess Category	2. Metric ID	(new, old)	3. Method	I	4. Frequenc	;у
		reserved 25.01.05	(25.01.05) ()				
5. Attrik	oute						
6. Metri	c Intent						
7. Metri	c Short Description						
Reserved	1.						
8. Metri	c						
9. Max.	Threshold	10. Max. To	erance	11. Weigh	nt		
12. Nee	ded Artifacts and Da	ta Elements					
13. Ass	umptions						
14. Inst	ructions						
<u>Determin</u>	e if X or X/Y exceeds the	threshold.					
15. Refe	erence(s)						
16. Rev	ision Block						
rev. no.	description of change and	I sections affecte	d date pr	repared	prepared by	date approved	approved by
V03.00	Updated for release. Re-ID 25.01.05. Removed metric.			02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None.		2019-	07-31	PM-30	2019-07-31	Melvin Frank

2019-03-13

2019-01-31

PM-30

PM-30

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

V01.01 Updated through 2019-03-13. Minor corrections.

1. Proce	ess Category	2. Metric ID	(new, old)	3. Method	I	4. Frequenc	y
		reserved 25.01.06	(25.01.06) ()				
5. Attrik	bute						
6. Metri	ic Intent						
7. Metri	ic Short Description						
Reserved	1.						
8. Metri	ic						
9. Max.	Threshold	10. Max. To	lerance	11. Weigł	ıt		
12. Nee	eded Artifacts and Da	ata Elements					
13. Ass	umptions						
14. Inst	ructions						
Determin	e if X or X/Y exceeds the	threshold.					
15. Refe	erence(s)						
16. Rev	ision Block						
rev. no.	description of change an	d sections affecte	d date pr	repared	prepared by	date approved	approved by
V03.00	Updated for release. Remoto 25.01.03.	oved metric. Metric	moved 2020-	-02-10	PM-30	2020-02-10	Melvin Frank
V02.00	Updated for release. None		2019-	-07-31	PM-30	2019-07-31	Melvin Frank

2019-03-13

2019-01-31

PM-30

PM-30

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

V01.01 Updated through 2019-03-13. Minor corrections.

1. Process Category	2. Metric ID (ne	ew, old)	3. Method		4. Frequen	cy	
	reserved (2) 27.02.02	7.02.02) ()					
5. Attribute							
6. Metric Intent							
7. Metric Short Descriptio	n						
						а	
8. Metric							
9. Max. Threshold	10. Max. Toler	ance	11. Weight				
12. Needed Artifacts and Data Elements							
13. Assumptions							
14. Instructions							
Determine if X or X/Y exceeds t	he threshold.						
15. Reference(s)							
16. Revision Block							
rev. no. description of change	and sections affected	date pre	pared p	repared by	date approved	approved by	
V04.00 Updated for release. Re	moved metric.	2022-0	1-21	PM-30	2022-01-21	Melvin Frank	
V03.00 Updated for release. Se	e itemized revision list.	2020-0	2-10	PM-30	2020-02-10	Melvin Frank	
V02.00 Updated for release. No	one.	2019-0	7-31	PM-30	2019-07-31	Melvin Frank	

2019-03-13

2019-01-31

PM-30

PM-30

2019-03-14

2019-01-31

Melvin Frank

Melvin Frank

V01.01 Updated through 2019-03-13. Minor corrections.

V01.00 Updated for release. All.

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