



Independent Verification & Validation Program

IMS Version History Overflow

**Last Updated:
February 26, 2016**

The purpose of this document is to provide a location for maintaining record of IV&V Management System (IMS) document Version History information that has exceeded its retention period. Keeping the information here promotes a more efficient IMS by removing excessive outdated information from the pages of IMS documentation. In place of the information that has exceeded its retention period the following note shall be placed in the IMS document Version History Table:

VERSION HISTORY				
Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		[First author]	[mm/dd/1999]
A-X	Revision information older than 7-year retention period relocated to Version History Overflow Document		Various	mm/dd/yyyy – mm/dd/yyyy
Y	mm/dd/yyyy

The following tables contain Version History information from active IMS documents only. All of the following information has exceeded its retention period per NASA Procedural Requirement (NPR) 1441.1, *NASA Records Retention Schedules*.



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IVV QM: Quality Manual				
Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial release	Replace Ames QM	Siamak Yassini IT/332	09/09/1999
A	Reflect transition to GSFC		Bill Jackson 307/215	05/07/2001
B	Reflect relationship between IV&V and GSFC; reflect deletion of IVV 07 and 08		Greg Blaney 307/387	07/09/2001
C	Reflect changes throughout the entire ISO SLPs, WIs, and documentation processes		Greg Blaney 307/387	03/27/2003
D	Updated process coverage chart and document references.		Greg Blaney 307/387	09/24/2003
E	Updated organizational charts.	IV&V's new "Code 100" attachment to Goddard Space Flight Center	Greg Blaney 180	03/11/2004
F	Updated sections 12.1 and 12.4 (verbiage update), references to NPG to be NPR, and a ref. in sec. 9.1 to 09-4.		Greg Blaney 180	05/25/2004
G	Updated to include three pillars in the quality process and incorporate new procedures into the IMS		Greg Blaney 180	10/20/2005
H	Annual review updates	Annual review updates	Greg Blaney	01/24/2006
I	Updated content; moved appendix material to separate documents		Stephanie Ferguson	10/10/2007



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IVV QM: Quality Manual

Version	Description of Change	Rationale for Change	Author	Effective Date
J	Updated Vision, Quality Policy, and document references; updated terms and definitions resulting from re-engineering process		Stephanie Ferguson	04/08/2008
K	Updated terminology to reflect the current organizational structure and to meet the ISO 9001:2008 Standard		Stephanie Ferguson	07/14/2009
L	Updated to reflect new organizational structure		Stephanie Ferguson	07/13/2010
M	Revised information on PEP; added execution plan process diagram		Greg Blaney	08/31/2010
N	Updated the Quality Policy, Leadership direction and Quality Objectives. Sections 1.2, 1.2.1, 1.2.2, and 1.3 are affected. Added IVV 09-9 to section 4.3. Added IVV 03 and IVV 26 to section 4.5.		Greg Blaney	11/24/2010
O	Updated Knowledge Management and KM roles, Public Affairs, etc.	Updated to accurately reflect updated roles and organizational changes	Natalie Alvaro	10/24/2011



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IVV 02: Administrative Controls

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Natalie Alvaro	04/18/2005
A	Annual Review	Annual Review	Natalie Alvaro	02/10/2006
B	Update		Natalie Alvaro	07/11/2006
C	Annual Review	Annual Review	Natalie Alvaro	01/09/2007
D	Update process flow diagrams to align with Facility Management paradigm.		Stephanie Ferguson	01/23/2008
E	Changed "IV&V Facility" to "IV&V Program"; revised process for obtaining a GSA vehicle		Stephanie Ferguson	05/07/2008
F	Removed references to Travel Manager and replaced with information about FedTraveler	Agency automated system for travel has changed	Stephanie Ferguson	02/05/2009
G	Changed "IV&V Facility" to "IV&V Program"; revised process for obtaining a GSA vehicle		Stephanie Ferguson	04/23/2009
H	Added precedence statement for external reference documents		Shirley Simmons	06/02/2010
I	Updated reference document precedence statement		Sara Cain	07/29/2010
J	Made minor corrections per internal audit findings		Shirley Simmons	08/31/2010



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IVV 04: Program Support Office Services Request Process

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Gregory Blaney	04/01/2005
A	Section 8, Records, update and minor corrections	Annual Document Review	Gregory Blaney	01/27/2006
B	Annual Document Review	Annual Document Review	David Sheldon	02/23/2007
C	Annual Document Review	Annual Document Review	David Sheldon	09/10/2007
D	Update process flow diagrams to align with Facility Management paradigm.		Stephanie Ferguson	01/28/2008
E	Update to incorporate link to new Form 1013		Paige Eckard	07/30/2008
F	Changed "IV&V Facility" to "IV&V Program"		Stephanie Ferguson	02/23/2009
G	Added Security to the O&M diagram		David Sheldon	01/25/2010
H	Added reference document precedence statement		Sara Cain	07/29/2010
I	Remove references to TrackWise, the O&M/WVURC Budget Transfer Request process and corresponding Form 1012		David Sheldon	12/03/2010



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IVV 05: Document Control (was Document and Data Control)

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		John Griggs IT/204	01/29/1998
A	Adopted Ames format		John Griggs IT/204	04/30/1998
B	Format correction		John Griggs IT/204	05/27/1998
C	Quality Record format change; Section 2.0 and Section 8.0 modified		John Griggs IT/204	08/26/1998
D	Format changes		John Griggs IT/204	09/11/1998
E	Addition of references to the related SLPs and reordering of flowcharts		John Griggs IT/204	04/15/1999
F	References to Ames Quality Manual replaced with reference to IV&V Facility Quality Manual		John Griggs IT/204	09/10/1999
G	Format and number changes; deletion of reference to Ames Research Center		John Griggs IT/204	11/17/2000
H	Deleted reference to AMES SLP; minor editorial		John Griggs	08/29/2001
I	Clarified Master List, Definitions	PAR 2002-P-26	John Griggs	10/17/2002
J	Removed reference between numbering system for IV&V and ISO standard		John Griggs	11/04/2002
K	Removed reference to IS 8204; added new requirement by clause 4.2.3.b		John Griggs	03/05/2003



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IVV 05: Document Control (was Document and Data Control)

Version	Description of Change	Rationale for Change	Author	Effective Date
L	Updated flowcharts and process flow to meet the revised DCR process/form; used template 5-2		John Griggs	05/16/2003
M	Changed "Carbon Copy" to "Courtesy Copy" in Section 6.1.2 and fixed Records section to follow SLP Template.		John Griggs	05/04/2004
N	Changed Flow (Section 4.0) to include section numbers; updated Section 6.1.2 to include (CAR/PAR or DCR Originator) and Section 6.1.3 to state that the DCC will assign a minimum review team		Stephanie Ferguson	03/29/2005
O	Changed to include final review in process		Stephanie Ferguson	01/17/2006
P	Modified Section 4.0 flow and Section 6.1.3.2		Stephanie Ferguson	03/28/2006
Q	Modified Reference Documents, Section 2.0, Section 5.2, Section 6.1 to include new WI		Stephanie Ferguson	07/13/2006
R	Updated flow and Section 6.1.3.3 for clarity		Stephanie Ferguson	10/20/2006
S	Updated Section 5.2 due to the change in the annual document review process		Stephanie Ferguson	12/06/2006
T	Updated Sections 5.0 and 6.0 to include references to T2002, T2003, and T2004		Stephanie Ferguson	04/13/2007



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IVV 05: Document Control (was Document and Data Control)

Version	Description of Change	Rationale for Change	Author	Effective Date
U	Updated process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	01/18/2008
V	Updated Shared Network Drive links		Stephanie Ferguson	06/13/2008
W	Changed "IV&V Facility" to "IV&V Program"; updated Shared Drive path		Stephanie Ferguson	12/11/2008
X	Changed references to IMS documents from "SLPs and WIs" to "SLPs, WIs, templates, supporting documents, and forms".		Stephanie Ferguson	04/15/2009
Y	Updated process and diagrams to include Records Review		Sara Cain	01/12/2010
Z	Updated process flow to clarify steps following Technical Review		Sara Cain	04/08/2010
AA	Added reference document precedence statement; clarified Section 4.1.2, Processing	To avoid confusion over which doc has precedence; and to ensure someone (PO) is verifying that external docs are still current.	Stephanie Ferguson	07/14/2010
AB	Updated Section 4.3 to remove necessity of Master List hard copy; clarified the content of Section 4.6.1	Electronic copy is the official version. Electronic backup copies exist.	Sara Cain	09/15/2010



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IVV 06: Procurement (was Purchasing)

Version	Description of Change	Rationale for Change	Author	Effective Date
Initial	Initial Release		Donna Ozburn	05/12/1998
A	Content change in section 6.8		Donna Ozburn	07/24/1998
B	Quality Records - format changes		Donna Ozburn	08/26/1998
C	Reference document number corrections		Donna Ozburn	09/15/1998
D	Quality Records Update		Donna Ozburn	01/28/1999
E	Change to SLP due to IV&V receiving independent certification		Donna Ozburn	09/24/1999
F	Due to reorg change approving titles. Add IVV Request for Purchase		Donna Ozburn	02/29/2000
G	Format and Number changes; Delete Reference to Ames Research Center		John Griggs	11/08/2000
H	Delete References to Ames Research Center- Aligned with GPG 5100.1C and include Grants and Cooperative Agreements		Donna Ozburn	05/07/2001
I	Clarify procurement request approval requirements, purchase for all goods & services		Donna Ozburn	09/24/2002
J	Update to include metrics		Mike Powers	09/03/2003
K	Update to change BO to RMO		Mike Powers	04/01/2004



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IVV 06: Procurement (was Purchasing)

Version	Description of Change	Rationale for Change	Author	Effective Date
L	Add Facility Management to Section 3, Update record retention table, Add Competitive/Non Competitive		Mike Powers	01/24/2005
M	Reference IEMP System		Kaci Reynolds	02/14/2006
N	Update process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	06/27/2008
O	Updated process flow diagrams to align with actual process		Mike Powers	04/23/2010
P	Removed reference to NPG 5600.2 and added document precedence statement		Robyn Budd	06/25/2010
Q	Changed simplified acquisition threshold to \$150,000; corrected links; updated Section 1.0, Purpose; removed Section 4.2, Procurement Implementation; and many clarification changes in Section 4		Raju Raymond	01/12/2011
R	Renamed to "Procurement" from "Purchasing". Updated Purpose and Scope.		Richard Grigg	10/26/2011
S	Restructured process to incorporate procurement phases and added additional references/guidance.		Raju Raymond	09/28/2012



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IVV 06-1: Work Instruction for Completing a Purchase Request (PR)

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Kaci Reynolds	04/01/2004
A	Name Change		Mike Powers	03/23/2005
B	Incorporate New Internal System and Reference Integrated Enterprise Management Program		Kaci Reynolds	02/09/2006
C	Update process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	08/24/2007
D	Updated terminology to reflect current organization		Donna Ozburn	08/17/2009
E	Changed name from "Procurement Request" to "Purchase Request"		Kaci Reynolds	04/23/2010
F	Added reference documents precedence statement		Sara Cain	07/29/2010
G	Document updated to remove notion of internal vs. external PR. PFM System reference added and included as location of PR Log records.	Updates WI to be in line with current functionality of PFM team.	Tara Perdue	05/17/2013
H	Update retention requirement in records table for PR and PR Log. Include reference to IVV 07.	CAR 2014-C-404: new retentions enable records management. Adding IVV 07 is for completeness.	Tara Perdue	06/30/2014



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IVV 07: Financial Data Control				
Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Donna Ozburn	10/23/2002
A	Revision		Mike Powers	09/07/2003
B	Revision – Changed BO to RMO		Mike Powers	04/01/2004
C	Revision – Update to include electronic Baseline Revision Form reference		Mike Powers	03/22/2005
D	Update FAR, NFS, IEMP, and Flow Chart		Mike Powers	11/04/2005
E	Annual Review and Update 6.3, 6.5 and 8		Mike Powers	02/03/2006
F	Update to 4.0, 6.3, 6.4, and 6.5		Mike Powers	11/17/2006
G	Update process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	08/07/2007
H	Changed “IV&V Facility” to “IV&V Program”		Stephanie Ferguson	02/19/2009
I	Updated to reflect new Program organization		Kaci Reynolds	04/02/2010
J	Change “Procurement” to “Purchase”		Kaci Reynolds	05/26/2010
K	Added reference document precedence statement		Sara Cain	07/29/2010
L	Added Baseline Revision Forms to Section 6.0, <i>Records</i> ; updated text on monthly financial presentations		Robyn Budd	08/31/2010



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IVV 08: Contract Management – was Contracting Officer Representative (COR) – was COTR

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Steven Raque	12/24/2002
A	Added reference to Budget reviews, Senior lead duties	CAR 2003-C-159	Raju Raymond	09/18/2003
B	Updated procedure to reference the CIM Tool as the repository for all required correspondence and documentation for Research contracts.		Wes Deadrick	01/14/2004
C	Updated procedure to reference the TOMS program as the repository of Task Orders for some contracts. Change wording from Business Manager to Resource Manager. Deleted last sentence in Section 6.1.		Richard Grigg	03/27/2004
D	Updated procedure to include Alternate COTR in Sections 1, 2, 3 and 8. Clarification that known future deliverables are required in the COTR matrix in Section 6.4. Update NASA form 1634 title in Document Reference table and Section 8.0. Update section 6.2 that Resource Manager is to be notified when 533Ms are rejected or delayed. Move general services task reference to section 6.1 from 6.2, indicate that the general services task order is not		Richard Grigg	03/08/2005



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IVV 08: Contract Management – was Contracting Officer Representative (COR) – was COTR

Version	Description of Change	Rationale for Change	Author	Effective Date
	always in place, and remove reference to managing general services work. Add IVV 09-8 in Reference Documents Table and Section 2, <i>Scope</i> . List TOMS as Location for Task Order Records in Section 8, <i>Records</i> .			
E	Address new IV&V organization by replacing Senior Lead terminology with Deputy IV&V Services Lead. Eliminate COTR responsibility to keep contract mod and task order copies in section 6.1 since onsite CO and TOMS now fulfill that requirement. Add PM Tool as possible deliverables matrix location in section 6.4, <i>Receipt and Filing of Contract Deliverables</i> . Reword last paragraph in section 6.5, <i>Evaluation of Contract Deliverables</i> , for readability. Add QM reference for role definitions.		Richard Grigg	07/26/2005



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IVV 08: Contract Management – was Contracting Officer Representative (COR) – was COTR

Version	Description of Change	Rationale for Change	Author	Effective Date
F	Add COTR/Alternate COTR Delegation Letter and Deliverables Matrix to Section 3, <i>Definitions & Acronyms</i> . Expand Section 5, <i>Responsibilities</i> . Remove cover letter filing requirement and clarify Deliverables Matrix required fields in Section 6.4, <i>Receipt and Filing of Contract Deliverables</i> . Add CIM reference to section 6.5, <i>Evaluation of Contract Deliverables</i> , for evaluation of research deliverables. Update Section 7.0, <i>Metrics</i> , to conform to IVV 05-2. Update table in Section 8, <i>Records</i> , to meet NPR 1441 requirements. Remove IVV 09-3, add IVV 09-3-5 and NPR 1441 to Reference Documents.		Richard Grigg	05/22/2006
G	Update definitions of CIM and PM Tool to match definitions in IVV 9-3 and IVV 9-4, respectively. Update Section 6.1, Contract Administration, to include management task order. Update Section 6.4, Receipt and Filing of Contract Deliverables, to correct the list of items in the Deliverable Matrix: Received Date versus Delivered Date.		Richard Grigg	05/11/2007
H	Update process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	01/25/2008



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IVV 08: Contract Management – was Contracting Officer Representative (COR) – was COTR

Version	Description of Change	Rationale for Change	Author	Effective Date
I	Add Section 4.5, Contract Listing. Add Contracts, Grants and COTRs List to Section 6.0, Records. Replace “Facility” with “Program” where needed.		Richard Grigg	02/03/2009
J	Update Section 4.4, <i>Deliverable Processing</i> , to take into account Product Line process. Also changes in Reference Documents and Sections 3.0, 4.1, and 4.3.		Richard Grigg	09/01/2009
K	Update Section 4.1, <i>Contract Administration</i> : “provided” vs. “signed.” Section 6.0 <i>Records</i> , Responsible Person title.		Richard Grigg	03/17/2010
L	Update Reference Documents table to point to IVV 09-7-5; Update process to include “Small Business Contract Requirements”		Raju Raymond	07/02/2010
M	Add Task Monitor PMER responsibilities		Deborah Stiltner	10/26/2011
N	Clarify Deliverables Matrix requirements in Section 4.4, <i>Deliverable Processing</i> . Add Past Performance submission requirements.		Raju Raymond	05/24/2012



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IVV 09-1: Independent Verification and Validation Technical Framework

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Bill Jackson IT/215	08/15/1997
A	Pages 4 through 9 changed to reflect IV&V purchased, DCR-9A review comments incorporated		Bill Jackson IT/215	03/06/1998
B	Ames SLP format		Bill Jackson IT/215	04/29/1998
C	Quality Record - format changes		Bill Jackson IT/215	08/26/1998
D	Section 6.3 is modified to include the technical report for design and verification reviews. Section 8.0 is modified to add technical report to quality records		Bill/Jackson IT/215	10/08/1998
E	References to Ames Quality Manual replaced with references to IV&V Facility Quality Manual		Bill Jackson IT/215	09/10/1999
F	Format and Number changes; Delete Reference to Ames Research Center		Griggs	12/01/2000
G	Modified to correct Quality Record identification		Costello	04/16/2001
H	Modified to incorporate WBS resulting from IV&V Transition		Dan Solomon	05/14/2004



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IVV 09-1: Independent Verification and Validation Technical Framework

Version	Description of Change	Rationale for Change	Author	Effective Date
I	Added references to IEEE standards and the IEEE acronym		Ken Costello	03/16/2006
J	Updated WBS		Marcus Fisher	08/13/2007
K	Updated WBS		Marcus Fisher	10/20/2008
L	Changed "IV&V Facility" to "IV&V Program"		Stephanie Ferguson	02/02/2009
M	Updated to align with industry standards (after an assessment team recommendation)		Jeff Northey	08/31/2010
N	Annual Document review feedback: minor changes to increase clarity		Jeff Northey	01/27/2011
O	Add training paragraph to section 4.3; add Success Stories; clarify WBS 1.3f, <i>effort data</i> . Replace description of IV&V Project Final Report with reference to IVV 09-4		Pat Theeke	06/06/2012



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IVV 09-4: Project Management

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Greg Blaney IT/387	01/30/1998
A	Numerous changes in content throughout entire document		Greg Blaney IT/387	04/07/1998
B	Changed document format and added sections 6.3.5 & 6.3.6		Greg Blaney IT/387	05/06/1998
C	Added new terms in Section 3.0 <i>Definitions</i> . Added two new sections called " <i>Inspection and Test of Product</i> " as section 6.5.1.3 and " <i>Inspection and Test Status</i> " as section 6.5.1.4. The " <i>Control of Nonconforming Product</i> " section changed from 6.5.1.3 to 6.5.1.5; and Added references to SLPs IVV 09-1, IVV 09-2, and IVV 09-3. Added notes in sections 6.3, 6.4, and 6.5.2 referring to the OSMA SLP IVV 09-3 when areas of this SLP did not apply.		Greg Blaney IT/387	07/24/1998
D	Quality Record - format changes		Greg Blaney IT/387	08/26/1998
E	Section 6.2 – Removed electronic file req. Sections 6.5.1.3 & 6.5.1.4 – Added reference to the 5-day grace period and added "Deliverable Acceptability Status"		Greg Blaney IT/387	09/11/1998



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IVV 09-4: Project Management

Version	Description of Change	Rationale for Change	Author	Effective Date
	email req. Section 6.5.2 – Added “Monthly Financial Assessment” email req. Section 8 – Added both records mentioned above.			
F	Added IVV 01 to Referenced Docs. Sections 6.3.4, 6.4.1, 6.5.1.2, 6.5.1.4, and 8.0 are modified as follows: added a Formal Agreement checklist, a new section, some references, and changed the Concurrence Sheet responsibility.		Greg Blaney IT/387	01/20/1999
G	Added definition for Senior Staff (section 3.4), and modified section 6.5.1.4 to include a Senior Staff review process for high level documents.		Greg Blaney IT/387	04/14/1999
H	References to Ames Quality Manual replaced with references to IV&V Facility Quality Manual and added Section 3.11		Greg Blaney IT/387	09/10/1999
I	Format and Number changes; Delete Reference to Ames Research Center		John Griggs	12/06/2000
J	Significant re-write to accommodate current PM process based upon transition to GSFC		Greg Blaney	04/03/2001
K	Clarify requirement for Project Managers to maintain copies of task orders.		John Gatto	05/15/2002



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IVV 09-4: Project Management

Version	Description of Change	Rationale for Change	Author	Effective Date
L	Remove COTR requirements and include instructions for Mission Tracking Matrix.		John Gatto	10/31/2002
M	Expanded Control of Nonconforming Product and added information regarding PMRs.		John Gatto	03/24/2003
N	Expanded Control of Nonconforming Products to include information regarding nonconformance's discovered by the organization.		John Gatto	06/02/2003
O	Added Senior lead duties, updated procedure flowchart and Metrics reference.		Raju Raymond	09/26/2003
P	Added references to New Business Lead and Deputy PM. Use of PM Tool and TOMS are identified. Added new Mission Model updating process. Expanded PM's responsibility to manage and monitor Customer-supplied data (Section 6.9). Added reporting of Project related risks in Section 6.13. Included references to Customer funded and IBD funded projects; added req. for annual review of Customer agreements; rewrote the section for controlling the nonconforming products; added new req. of monthly PMR	For clarity.	Stephanie Ferguson Raju Raymond Ken Vorndran	03/27/2004



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IVV 09-4: Project Management				
Version	Description of Change	Rationale for Change	Author	Effective Date
	updates; and updated the Evaluation of Deliverables section.			
Q	Clarified sections 6.3 and 6.4 to clearly state what information the PM is responsible for updating. Deleted "Facility cover page" from 6.12. Changed insure to ensure throughout document.		Stephanie Ferguson Steve Raqué	4/21/2004
R	Deleted Mission Tracking Sheet requirements due to change in requirements by New Business Lead. Updated Sec 3.0 for definitions unique to this SLP only. Updated Sec 5.0 to include responsibilities for all applicable roles to this SLP. New Process Flow Diagram to represent new organization of this SLP. Deleted the PM Tool description section and added PM Tool to Section 3.0	DCR 240. CARs 13260, 13261 PARs 13041, 13103, 13163, 13335, 13777, 13789	Melissa Schmidt	11/2/2004
S	P111 - Sections: 6.1.3.3 P140 - Sections: 5.5, 6.7, 6.8 ADR - Sections: 3.0, 6.6.2, 8.0	PAR: 2005-P-111 PAR: 2005-P-140 Annual Document Review	John Marinaro	02/28/2005
T	Update for organizational changes. Added to/refined list of external presentations/ reviews. Clarified Formal Agreement (FA) dependencies.		Steve Raqué	09/08/2005



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IVV 09-4: Project Management

Version	Description of Change	Rationale for Change	Author	Effective Date
U	Updated to implement CMMI initiative (IV&V Services Baseline definition, Requirements Management section, Inspection of Product from Contractor section), Updated definitions, added references to IVVP Template, removed Establish Contractor Tasking section (now in IVV 09-8), updated list of items that are captured in PM Tool, complete rework of Records section.		Steve Raqué	07/26/2006
V	Update process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	09/21/2007
W	Update Quarterly/Annual Responsibilities flow to reflect correct PMER input intervals		Raju Raymond	12/05/2007
X	Update IPEP process description; also included reference to PEP		Deborah Stiltner	02/19/2009
Y	Update for organizational changes, shift from product line to projectized structure.		Natalie Alvaro	07/16/2010
Z	Changes to reflect current process of approvals		Greg Blaney	08/12/2010



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IVV 09-7: Software Assurance Research Program (SARP) (was IVV 09-3)

Version	Description of Change	Rationale for Change	Author	Effective Date
Initial	Initial Release		Cynthia Calhoun IT/309	08/22/1997
A	Added 5.2, <i>Process Verifications</i> . Added NASA Policy Guideline NPG 1441.1 to References. Added section 8 (Metrics). Format and content changes.		Cynthia Calhoun IT/309	04/09/1998
B	Format changes		Cynthia Calhoun IT/309	05/05/1998
C	Added " <i>Financial Management</i> " section. Added references to 53.IT.0009-4 SLP in section 6.1.7.2. Modified sections 1.0, 6.1.2, 6.1.4.3, 6.1.7.1, 6.1.7.2, 6.1.7.3, 6.1.8, 6.2		Cynthia Calhoun IT/309	07/23/1998
D	Quality Record - format change		Cynthia Calhoun IT/309	08/26/1998
E	Revised the Resource Manager responsibility. Added the OSMA Annual Review Report, OSMA Software Program Level 1 Technical Program Plan, and OSMA Software Program Operating Plan as Quality Records. Updated Center Initiative Management Process to reflect the changes in the Level 1 Technical Program Plan.		Cynthia Calhoun IT/309	04/16/1999
F	References to Ames Quality Manual replaced with references to IV&V Facility Quality		Cynthia Calhoun IT/309	09/10/1999



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IVV 09-7: Software Assurance Research Program (SARP) (was IVV 09-3)

Version	Description of Change	Rationale for Change	Author	Effective Date
	Manual			
G	Reference to Process Verification Work Instruction (IVV 09-3-1) in section 6.2		Cynthia Calhoun IT/309	03/10/2000
H	Format and Number changes; Delete Reference to Ames Research Center		John Griggs	12/06/2000
I	Rewrite of document to reflect refinement of procedure resulting from transfer to GSFC		Shandra Auvil	07/02/2001
J	Changed item 6.5		Wesley Deadrick	05/15/2002
K	Rewrite to reflect NRA and DDF scope additions		Frank Gmeindl	04/08/2003
L	Updated reference documents to include relevant standards. Evaluated and updated the metrics collected as a result of this process.		Wes Deadrick	11/03/2004
M	Aligned with current practice		Frank Gmeindl	06/08/2005
N	Aligned with other IV&V Facility documentation		Lisa Montgomery	02/07/2006
O	Changes from 08/11/2006 audit	08/11/2006 audit	Frank Gmeindl	08/16/2006
P	Remove references to cancelled 09-3-4, remove record, add research infusion initiatives, delete RCT		Frank Gmeindl	09/07/2007
Q	Update process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	08/05/2008



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IVV 09-7: Software Assurance Research Program (SARP) (was IVV 09-3)

Version	Description of Change	Rationale for Change	Author	Effective Date
R	Changed "IV&V Facility" to "IV&V Program"; updated to align with current NASA IV&V roles and other documentation; updated Section 6.0, <i>Records</i>		Stephanie Ferguson	02/09/2009
S	Changed from IVV 09-3 to IVV 09-7; updated to align with other NASA IV&V documentation		Lisa Montgomery	04/16/2010
T	Added reference document precedence statement		Sara Cain	07/29/2010
U	Updated language to be SARP-specific; changed SARP Lead to SARP DPM. Removed mention of NRA		Harmony Dressler	01/13/2011
V	Revised to remove references to support tools that no longer exist and to incorporate language from canceled WIs		Lisa Montgomery	12/01/2011



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IVV 10: Software and Hardware Configuration Management

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Roger Harris	07/28/2005
A	Conformed to IVV 05-2		Roger Harris	02/07/2006
B	Added references to Enterprise Architecture, supplied corrections to process flow, and changed reference documents		Roger Harris	11/21/2006
C	Update process flow diagrams to align with Facility Management paradigm.		Stephanie Ferguson	05/19/2008
D	Changed "IV&V Facility" to "IV&V Program"		Stephanie Ferguson	02/19/2009
E	Changed Configuration Reporting section		Roger Harris	05/11/2010
F	Updated to reflect changes due to IVV 11		Roger Harris	08/09/2010
G	Added reference to CM Reference List, updated scope, and added guidance to determine if CM should be used on a project		Roger Harris	04/12/2011
H	Change CMP Process and flowchart. Add responsibility for coordinating with IT Group and updating CM Reference List	CAR: 2013-C-386. The CM Reference List (required to identify the existence, location, and responsibility for each CMP) is not actively being used	Doug Dorrer	04/02/2013



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IVV 12: NASA IV&V Metrics				
Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Stephanie Ferguson	03/23/2005
A	Changed section referenced for email instructions in Section 6.2		Stephanie Ferguson	07/08/2005
B	Updated the following: Section 4.0 modify flow to include metrics reporting at QMRs, Section 5.0 to include roles, Section 6 to provide more detail regarding analysis or metrics and QMR reporting.		Stephanie Ferguson	01/17/2006
C	Modified the flow in Section 4.0 to now include two separate flows.		Stephanie Ferguson	10/24/2006
D	Update process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	08/06/2007
E	Changed "IV&V Facility" to "IV&V Program"		Stephanie Ferguson	12/17/2008
F	Include information on the Metrics Table file path and the email address for the IMS mailing list		Stephanie Ferguson	10/20/2009
G	Updated verbiage in Section 6.0, <i>Records</i>		Sara Cain	01/12/2010
H	Updated file paths to point to the ECM; added Metric Approval Form 1014; changed annual review process		Stephanie Ferguson	01/25/2011



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IVV 12: NASA IV&V Metrics

Version	Description of Change	Rationale for Change	Author	Effective Date
I	Updated scope, definitions, process flow diagram and text for modifying metrics during FY.	PAR 2011-P-339: Under current management, IV&V metrics will be contained within one system	Keenan Bowens	10/03/2011
J	Add Metrics Owners' reporting requirements.		Keenan Bowens	03/14/2012
K	Several updates and clarifications, some are: Add Metrics Package and Metrics Team definitions; replace notifications by email with QMR meeting notifications.	Annual Document Review. More accurately reflect actual process.	Keenan Bowens	05/28/2013
L	Added supporting document S3003, <i>Quick Reference Guide for IV&V Metrics</i> , and referenced it in the text.	New supporting document	Clarence Swiger	08/22/2013



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IVV 14: Corrective and Preventive Action

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		John Griggs IT/204	05/01/1998
A	Section 2.0, 3.0, 5.0 And 6.0 were modified and added flow chart.		Siamak Yassini IT/332	07/23/1998
B	Quality Record - format change, modified section 2.2		Siamak Yassini IT/332	08/26/1998
C	Consolidated forms		Siamak Yassini IT/332	01/28/1999
D	References to Ames Quality Manual replaced with references to IV&V Facility Quality Manual. Updated Section 5.1.4 & 6.1.2		Siamak Yassini IT/332	09/10/1999
E	Adding Track wise automated tool section 3.3		Siamak Yassini IT/332	03/30/2000
F	Format and Number changes; Delete Reference to Ames Research Center		John Griggs	12/06/2000
G	Significant re-write to accommodate current process		John Griggs	04/03/2001
H	Revise severity codes to define "immediate", also require corrective action plans		John Griggs	09/13/2001
I	Revise to include lower tier action tracking systems, and to modify the automated flow to allow staff to enter CAR/PARs		John Griggs	06/06/2002



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IVV 14: Corrective and Preventive Action

Version	Description of Change	Rationale for Change	Author	Effective Date
J	Clarify initial assignment of CAR/PAR to Management Representative; also clarify use of IVV Form 1005 as backup to Trackwise		John Griggs	10/21/2002
K	Updated process flow to current flow practices; verbiage updated to meet new acronym and system references (IMS)		Brian Kesecker	04/28/2004
L	Updated reference documents to add form 1005, added section numbers in section 4.1 flow and updated section 8		Stephanie Ferguson	02/23/2005
M	Add corrective action plan to Section 6.4		Stephanie Ferguson	09/26/2005
N	Deleted definitions that were previously defined in the QM. Section 8 – Updated the Records table to reflect NPR 1441, NASA Records Retention Schedules		Stephanie Ferguson	01/10/2006
O	Deleted metric from Section 7.0		Stephanie Ferguson	09/11/2006
P	Update process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	08/06/2007
Q	Deleted unnecessary definitions and removed the words administrative from section 3.5 and observation from section 4.1		Stephanie Ferguson	01/09/2008



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IVV 14: Corrective and Preventive Action

Version	Description of Change	Rationale for Change	Author	Effective Date
R	Remove references to PMR		Stephanie Ferguson	05/05/2008
S	Removed the procedure requirement for lower-tier AI systems.		Stephanie Ferguson	09/17/2008
T	Changed "IV&V Facility" to "IV&V Program"		Stephanie Ferguson	12/17/2008
U	Updated definitions of major/minor nonconformances and observations		Stephanie Ferguson	01/25/2010
V	Updated definition of major nonconformances		Stephanie Ferguson	04/07/2010
W	Added reference document precedence statement		Sara Cain	07/29/2010
X	Updated to clarify lower tier action items, define customer and clarify Action Items Tab in Trackwise		Robyn Budd	09/15/2010
Y	Replace Trackwise use with the new ECM workflow for CAR/PAR tracking		Richard Grigg	03/16/2011
Z	Clarify Purpose, Definitions, roles, and Process Flows. Remove Lower Tier Action Item Tracking Systems		Natalie Alvaro	10/21/2011



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IVV 16: Control of Records				
Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Siamak Yassini IT/332	07/23/1998
A	Quality Record - format and inputs changes		Siamak Yassini IT/332	08/26/1998
B	Quality Records is updated to include the Technical Report of design and verification review		Siamak Yassini IT/332	10/08/1998
C	Quality Records is updated to include the purchasing, OSMA record, project management records		Siamak Yassini IT/332	01/28/1999
D	References to Ames Quality Manual replaced with references to NASA IV&V Facility Quality Manual		Siamak Yassini IT/332	09/10/1999
E	Form and Format changes, numbering change to delete Ames Research Center		John Griggs	12/06/2000
F	Reflect new management (approval), Quality Records defined in SLPs		Shirley Simmons	04/20/2001
G	Change in Reference Documents		Natalie Alvaro	03/13/2004
H	Minor editorial changes and additions of definitions		Natalie Alvaro	04/01/2005
I	Quality Record Retention and Disposal		Kathleen Millson	04/22/2005
J	Annual Review		Natalie Alvaro	01/27/2006



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IVV 16: Control of Records

Version	Description of Change	Rationale for Change	Author	Effective Date
K	Include Records Liaison, Records Manager, Institutional Services Lead, and Foundation Lead; add File Plan and File Log to Records.		Richard Grigg	09/10/2007
L	Add process flow diagrams, incorporate two new forms, and add On-Site Log and Retirement Log to Records section.		Richard Grigg	01/25/2008
M	Change Titles of Records Manager to Records Liaison; Records Liaison to Records Custodian. Update sub-process references; Update Scope.		Richard Grigg	05/19/2008
N	Define Original Records, Subject Area and Vital Records. Update Section 4.2, New Subject Area or Project Filing Process. Change Section 4.7, Records Disposition Process.		Richard Grigg	09/11/2008
O	Update Retention Requirements in Section 6, <i>Records</i> .		Richard Grigg	12/16/2008
P	Modify Visio drawing in section 4.2 to put "Provides File Number" in an action box. Change Institutional Services Lead to Knowledge Management Lead where needed (Visio 4.7.1, and section 4.7.2). Revise flow of Visio 4.7.1. Section 6.0, <i>Records</i> , Responsible Person change.		Richard Grigg	03/17/2010



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IVV 16: Control of Records

Version	Description of Change	Rationale for Change	Author	Effective Date
Q	Added reference document precedence statement		Sara Cain	07/29/2010
R	Added GPR 1440.8 and NPD 1440.6 to Reference Documents table		Richard Grigg	11/02/2010
S	Added verbiage in Section 4.3.1 about new filing mailboxes located in Building 2		Richard Grigg	02/18/2011
T	Added Physical Records definition, replace Records Custodian and Records Liaison with DCC. Sections 4.1, 4.2, 4.3, and 4.5 were updated with enhanced roles/ responsibilities and descriptions.	PAR 2011-P-326: Clarify records identification. Clarify and simplify roles/ responsibilities.	Richard Grigg	10/25/2011

IVV 17: Internal Quality Audits

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		John Griggs IT/204	08/26/1998
A	Format Changes		John Griggs IT/204	09/11/1998
B	Consolidation of forms		John Griggs IT/204	01/28/1999



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IVV 17: Internal Quality Audits

Version	Description of Change	Rationale for Change	Author	Effective Date
C	References to Ames Quality Manual replaced with references to IV&V Facility Quality Manual. Updated Section 6.4		John Griggs IT/204	09/10/1999
D	Format and Number changes; Delete Reference to Ames Research Center		John Griggs	12/06/2000
E	Remove reference to Ames, minor changes to Audit procedure		John Griggs	04/19/2001
F	define "immediate"	Response to audit finding 2001-C-77	John Griggs	08/29/2001
G	Clarify use of Form IVV 1005; Formatting and numbering corrections		John Griggs	10/21/2002
H	Clarify criteria for internal audit content determination		John Griggs	03/05/2003
I	Update flow chart and change Sections mentions of sequential audit tracking number to audit date.		Stephanie Ferguson	02/07/2005
J	Updated document to reflect: change of QMS to IMS, delete audit checklist reference, and the addition of Auditor Database references.		Stephanie Ferguson	10/13/2005
K	Updated document to: delete definitions that are contained in the QM and clarify Section 6.2.3.		Stephanie Ferguson	01/12/2006
L	Updated document to add ISO reference document location and updated Section 3.7.3		Stephanie Ferguson	09/07/2007



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IVV 17: Internal Quality Audits

Version	Description of Change	Rationale for Change	Author	Effective Date
M	Update process flow diagrams to align with Facility Management paradigm		Stephanie Ferguson	11/15/2007
N	Updated to remove audit checklist and include editorial spreadsheet		Stephanie Ferguson	09/17/2008
O	Changed "IV&V Facility" to "IV&V Program"		Stephanie Ferguson	12/19/2008
P	Updated definitions of major/minor nonconformances and observations		Stephanie Ferguson	01/25/2010
Q	Revised definition of major nonconformance		Stephanie Ferguson	04/02/2010
R	Added reference document precedence statement		Sara Cain	07/29/2010
S	Change Process flow to reflect actual process for Training and Supervisor Approval		Robyn Budd	09/15/2010
T	Update Section 4.1, Audit Master Schedule to denote that all (including new) SLPs/WIs are audited within 12 months		Natalie Alvaro	03/30/2011
U	Update roles. Replace Audit Database with Auditor Repository		Natalie Alvaro	10/20/2011



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IVV 18: Human Resource Management

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release		Tom Wilson IT/216	05/22/1998
A	Combined Ames SLP and IVV WI, Section 8.0 quality record format change		Tom Wilson IT/216	08/26/1998
B	Update to SLP contents Section 5.3 added reflecting COTR responsibilities		Tom Wilson IT/216	09/17/1998
C	Section 8.0 is modified to include the subcontractor qualification an training records		Tom/Wilson IT/216	10/09/1998
D	Update to Deputy Director Terminology		Siamak Yassini IT/332	09/10/1999
E	Format and Number changes; Delete Reference to Ames Research Center		John Griggs	12/06/2000
F	Update to reflect changes in business plan	internal audit 2000-2	Bill Jackson	05/04/2001
G	Update to correct some findings	CAR 2001-C-76	Greg Blaney	08/29/2001
H	Update to add information on hiring competencies and process	CAR 2003-C-123	Bill Jackson	03/04/2003
I	Reflect supervisor role, new training request procedure (annual review)		Bill Jackson	03/30/2004
J	Electronic training request procedure, add definition of On-The Job Training, annual review		Donna Ozburn	03/16/2005



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IVV 18: Human Resource Management

Version	Description of Change	Rationale for Change	Author	Effective Date
K	Annual review and format changes; inclusion of SATERN process.		Donna Ozburn	08/09/2006
L	Change scope to include HR functions, change name of document, incorporate Facility Management paradigm		Stephanie Ferguson	01/30/2008
M	Changed "IV&V Facility" to "IV&V Program"		Stephanie Ferguson	02/23/2009
N	Annual Document Review – Updated to reflect current Agency, GSFC and NASA IV&V Program policies and procedures.		Stephanie King	02/01/2011
O	Re-write to depict only processes/ activities that are performed within the NASA IV&V Program specific to Human Capital area functions.		Stephanie King	06/12/2012



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IVV 20-1 Work Instruction for World Wide Web Resource Review and Approval

Version	Description of Change	Rationale for Change	Author	Effective Date
Basic	Initial Release.		Brian Kesecker	07/26/2005
A	Updated document to reflect IVV 05-3 changes and incorporated ADR comments	reflect IVV 05-3 changes and Annual Document Review	Brian Kesecker	01/27/2006
B	Removed Communications Materials Review from the process and made a few minor context edits. Also, addition of GPR 2800.1 references.		Brian Kesecker	02/17/2006
C	Clarified purpose and scope. Changed title from "World Wide Web Resource Request Review and Approval" to "World Wide Web Resource Review and Approval".	PAR # 2007-P-238	Jeff Northey	06/06/2007
D	Quality Manual hyperlink updated.		Stephanie Ferguson	03/10/2008
E	Update to align with Facility Management paradigm	Align with Facility Management paradigm	Stephanie Ferguson	07/09/2008
F	Changed "IV&V Facility" to "IV&V Program"		Stephanie Ferguson	01/06/2009
G	Updated Section 4.0 to break single process flow diagram into two diagrams		Stephanie Ferguson	03/17/2010