	Organization	Submitted	Type*	Page	Starting	Ending	Section #	Comment	Suggested Change [^]
#	Name	Ву		#^	Line #^	Line #		(Include rationale for	
								comment)^	
	MITRE (InfoSec)		G	vii	152		0	Currently, companies are	Create a NIST-managed FAQ
								relying heavily on the DoD's FAQ	for 800-171 and 800-171B.
								for 800-171, but this will not be	
								"official" going forward.	
								Contractors need a way to get	
								clarity on specific requirements,	
								in a way that can be frequently	
								updated and re-evaluated	
								without having to modify the	
								original text. Also, many of the	
								Discussion sections in the -171B	
								draft are already too long, and	
								an FAQ allows for more useful	
								info to be added while keeping	
								the -171B text to a minimum.	

#	Organization Name	Submitted By	Type*	Page #^		Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		T	3	251	256	1.1	The sentences beginning with "The enhanced" and "Additionally, the" appear to be at odds. The first sentence indicates that all requirements apply "only to componentsin a critical program or high value asset." But the latter sentence speaks to broader topics like "penetration resistant architecture", "damage limiting operations", and "designing for cyber resiliency" that go beyond the scope indicated in the prior sentence. If the latter requirements are truly aimed at a larger scope, the first sentence needs to be modified to indicate that some of the requirements have different scopes. Any decision made here should also apply to the blue information box on page 11, line 461.	Clarify sentence based on intended scopes.

	Organization	Submitted	Type*	Page	Starting	Ending	Section #	Comment	Suggested Change^
#	Name	Ву		#^	Line #^	Line #		(Include rationale for	
								comment)^	
	MITRE (InfoSec)		G	6	337	339	2.2	The guidance provided for	Add implementation
								controls is not always clear on	guidance keywords to each
								implementation. Consider	requirement to address how
								providing information such as	it is expected to be
								in 800-171A or the "DoD	implemented.
								Guidance for Reviewing System	
								Security Plans and the NIST SP	
								800-171 Security Requirements	
								Not Yet Implemented"	
								document, labeling each	
								control with possible methods	
								of implementation such as	
								hardware, software, IT	
								configuration, policy/process,	
								etc.	

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		G	6	345		2.2	The "discussion" section follows 800-53's model, but is often too verbose. Consider moving the discussion sections to an appendix, and breaking up each discussion section into 3 discrete sub-parts: - Key Concept: Include definitions of key terms, further explanation of what the control needs to accomplish to meet the requirement, etc. - Justification: Explanation of why the control is needed (e.g. what threat/risk the control is intended to address). If the only reason is "reduce risk of insider threat", the text is vague and redundant (it should be assumed that all these controls are there to address insider threat). Consider removing this information from EVERY existing and future 800-53 and 800-171 control and adding it to a	
								supplemental document, as it would create the basis for	

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		G	6	345		2.2	Discussion sections need to accomplish 2 specific objectives: provide clarity on the intent & scope of the control, and provide guidance on how the control can be achieved. Many of the -171B Discussion sections provide information that is peripheral to these objectives (e.g. provide an explanation of why the control is needed). The language for each Discussion section should be evaluated to determine if it helps address either of these objectives, and modified based on the evaluation.	Limit Discussion sections to 1) clarify & scope information, and 2) guidance on how to implement the control.
	MITRE (InfoSec)		G	7	355		2.2	Use a different numbering scheme that does not create confusion with current -171 controls. For -171B requirements that do not link back to an 800-171 requirement, use something like "3.1.a", "3.1.b", etc., with the first numbers matching up with the section of 800-171.	Use a different numbering scheme based on the -171 section being linked to.

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		G	7	355		2.2	If the 171B requirement is an explicit expansion of an existing 171 requirement (e.g. more detail about implementation): - make it clear in the numbering scheme that this is an expansion/enhancement of the base control. For example, dual authorization (currently 3.1.1e) is an extension of 3.1.4's separation of duties, so call it "3.1.4.a" or "3.1.4.e1") make it clear in the discussion section what the difference is between the original requirement and the expanded details Example: 3.2.1e is an expansion of 3.2.1 (or 3.2.3). The base control is "provide training to people" and this expansion dictates additional kinds of training that must be included to meet the control.	Explicitly link 800-171B controls to 800-171 controls if the new control expands on the original.

	Organization	Submitted	Type*	Page	Starting	Ending	Section #	Comment	Suggested Change^
#	Name	Ву		#^	Line #^	Line #		(Include rationale for	
								comment)^	
	MITRE (InfoSec)		G	7	355		2.2	If 2 controls are similar but have	Where an 800-171 and
								slight variances in scope or	another -171 or -171B
								objective, the Discussion	control have similarities,
								sections should explicitly	explicitly link the controls
								reference the other control and	and describe how the new
								note how they are different.	control differs from the
								- Example: 3.4.2e and 3.5.3e	original control.
								both speak to assessing system	
								components and taking action,	
								but one is aimed at systems	
								residing indefinitely on the	
								network, while the other refers	
								to systems that are joining a	
								network or initiating a	
								connection to another system.	
								3.4.1e could also be included,	
								as it is designed to be the	
								repository of approved	
								configurations that 3.4.2e and	
								3.5.3e use to make assessments.	

	Organization	Submitted	Type*	Page	Starting	Ending	Section #	Comment	Suggested Change^
#	Name	Ву		#^	Line #^	Line #		(Include rationale for	
								comment)^	
	MITRE (InfoSec)		Т	8	371		3	DoD does not use "High Value	Confirm that terminology is
								Asset" terminology, they use	synchronized across the
								"Critical Program Information"	government before
								(CPI). It needs to be clear how	attempting to apply it to
								these controls are expected to	contractor systems. If it can't
								be implemented. Experience	be, provide guidance on how
								indicates that trying to define	it should be interpreted by
								these requirements in contracts	gov sponsors and contractors.
								is not effective; either too much	
								stuff gets pulled into scope, or	
								each work order must include	
								explicit information (which is	
								hard for contractors with	
								multiple contracts to parse).	

	Organization	Submitted	Type*	Page	Starting	Ending	Section #	Comment	Suggested Change^
#	Name	Ву		#^	Line #^	Line #		(Include rationale for	
								comment)^	
			Е		379	382	3	The studies referenced in line	Include citation to "studies"
								379 should be identified and	referenced in line 379.
								cited as a footnote or Appendix	
								reference. Many of the controls	
								in 800-171B are written as	
								conceptual practices, without	
								specific implementation	
								guidance or evidence of	
								successful implementations.	
								Having access to these studies	
								could provide additional	
								guidance on how organizations	
								can achieve the objectives, and	
								reasonable steps that could be	
								taken to implement them.	

#	Organization Name	Submitted By	Type*	Page #^	_	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		G	9	404		3	Many inquiries have come to us indicating that a fully single, fully-air-gapped system should be able to avoid some portion of the controls. Given that external service providers are now mentioned as a viable alternative, can air-gapping be mentioned as well? Air-gapping is hinted at in some of the controls as an alternative (e.g. IoT), but it would help to have a better, high-level description of whether air-gapping systems is a viable alternative to implementing some or all of the other -171 and -171B controls.	Identify whether air-gapping is a viable alternative (similar to external security providers) to not implementing certain controls.

#	Organization Name	Submitted By		Page #^		Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		G	11	459		3	The concept of limiting scope, as described here, is insufficient. EVERY control in 800-171 and 800-171B needs to be evaluated for scope, and scope should be described in every requirement (or a table in the Appendix). Examples could include: - HVA CUI system only - HVA CUI system and all networking systems protecting the information - All systems with CUI - All systems on the "compliant" network - All systems on the enterprise network - A specific program or function (e.g. having a security team create a honeypot function, or having a process in HR to do background checks) All employees (e.g. training).	Apply specific scope language to EVERY requirement in 800-171 and 800-171B

comment)^	
	requirements for onsor billing ons.

#	Organization Name	Submitted By		Page #^	Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		G	11	463	464	3	The statement "the	Apply specific scope language
								requirements apply only to the	to EVERY requirement in 800-
								components of nonfederal	171, in particular to those
								systems that process, store, or	requirements that are not
								transmit CUI" is sensible, but	system-oriented (e.g.
								does not align with how many	training). For those
								of the controls are written.	requirements that are beyond
								Many controls in -171 and -	the scope of HVA, consider
								171B have nothing to do with	holding these off until the
								systems, and only make sense	next rev of 800-171.
								when applied on a larger scale,	
								but no additional scope	
								language is provided beyond	
								what is written here. Without	
								additional guidance,	
								organizations implementing	
								these requirements are left with	
								the assumption that the	
								requirements only need to be	
								applied in the context of HVA	
								systems. Note that the language	
								here should be kept consistent	
								with that on page 3, line 251.	
								This comment is repeated below	
								for many of the controls where	
								the scope of the control could	
								easily be interpreted to be much	

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #		Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	12	471	471	3.1.1e	This would require rearchitecting existing workflows, and even re-architecting systems. In the requirement and the discussion, make it clear that "authorization to execute" can be done via sequential processes (e.g. Level 1 mgr signs off, then Level 2 mgr signs off), and does not have to be technically enforced by a system. At a minimum, include clarification that this does not have to be "2 people at the same time" as in missile systems.	Add "processes with" to make the statement "Employ processes with dual authorization"
	MITRE (InfoSec)		E	12	478	480	3.1.1e	Not needed as these are addressed by other controls.	In the discussion section, remove sentences starting with "The two individuals" and "The individuals are".
	MITRE (InfoSec)		E	12	483		3.1.2e	As written, this would exclude any kind of cloud implementations or vendor appliances, which are standard for many hardware and storage solutions.	Rewrite for clarity: "Restrict direct access to organization networks and systems from any information resource that is not owned, provisioned, or issued by the organization."

#	Organization Name	Submitted By		Page #^	_	Ending Line #		Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		T	12	483		3.1.2e	It is not clear if the language prohibits a non-organizationally owned device from accessing organizational systems via a managed intermediary like Citrix (i.e. VPN access to an organizationally-controlled VM).	Please clarify.
	MITRE (InfoSec)		E	12	491		3.1.3e	Link this guidance to 800-171 3.1.3 "control the flow". Explicitly state in the discussion section that this provides enhanced requirements for that control.	Link to 800-171 3.1.3.
	MITRE (InfoSec)		Т	12	491		3.1.3e	This requirement appears to be a subset of, if not identical to, 3.13.4e. The Discussion section needs to elaborate on how these requirements are different.	Distinguish between this and 3.13.4e.
	MITRE (InfoSec)		E	12	491		3.1.3e	Where terms have definitions in the Appendix, include a link or footnote to indicate that the term is defined.	Include reference to "security domains" definition in Appendix.

#	Organization Name	Submitted By	Type*	Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	12	494		3.1.3e	The Discussion section needs to provide examples of different "security domains". We believe this refers to areas where different government agencies' data is mixed (e.g. nuclear and DoD), but the way it is described here could be interpreted very narrowly (Army Project 1 and Army Project 2).	Refine guidance to clarify what different security domains are.
	MITRE (InfoSec)		Т	12	491		3.1.3e	This control appears to apply to things like email and SharePoint files, where there are not "domains" (information is segregated by access controls, not flow control mechanisms). This requirement would appear to prohibit those types of solutions, which would affect some valid business models (cataloging research across government domains).	Clarify how "domains" would be applied to systems like email and SharePoint, or explicitly state that storage systems are exempt.

#	Organization Name	Submitted By		Page #^		Ending Line #		Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	13	516		3.1.3e	The UCDSMO sites do not appear to be accessible. Not sure if this is temporary, or as a result of not having a valid DoD/government login. Any options like this that are DoD-centered should be avoided if possible. 800-171 is intended to be used for all government contractors, not just DoD contractors.	Remove or correct reference to UCDSMO.
	MITRE (InfoSec)		E	14	526		3.2.1e	The discussion section of this control should provide explicit linkage to 800-171 3.2.1 or 3.2.3.	Link to 800-171 3.2.1 or 3.2.3.
	MITRE (InfoSec)		Т	14	526		3.2.1e	The control or the Discussion section should clarify that the additional training is only for individuals managing HVA systems.	Please confirm that scope of this control is only for training indivuals supporting HVA systems (see page 11).
	MITRE (InfoSec)		E	14	541		3.2.2e	The discussion section of this control should provide explicit linkage to 800-171 3.2.1, as it provides extended requirements for 3.2.1.	Link to 800-171 3.2.1.

#	Organization Name	Submitted By	Type*	Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	14	541		3.2.2e	The control or the Discussion section should clarify that the training exercises are only for individuals managing HVA systems.	Please confirm that scope of this control is only for training exercises for indivuals supporting HVA systems.
	MITRE (InfoSec)		Т	16	557		3.4.1e	The control or the Discussion should clarify that the repository is just for operating systems and OS components on HVA systems.	Please confirm that scope of this control is only for maintaining an authoritative source of configurations for systems containing HVA.
	MITRE (InfoSec)		E	16	560		3.4.1e	Is this an enhanced version of least functionality (3.4.6), whitelisting (3.4.8), or controlling user-installed software (3.4.9) from 800-171? If so, it should be explicitly noted here. The Discussion section already mentions 3.4.1 and 3.4.4, which is helpful.	Add link to 800-171 controls (if relevant).
	MITRE (InfoSec)		Е	16	564	569	3.4.1e	Remove the sentences referring to why the repository is used, as this becomes clear in the next control (3.4.2e).	Remove the Discussion text from "The information in the repository" through "check for compliance or deviations".
	MITRE (InfoSec)		E	16	564		3.4.1e	Add link to 3.4.2e, as these controls are inherently linked.	Add link to 3.4.2e.
	MITRE (InfoSec)		Е	16	574	574	3.4.2e	Start new sentence with "Remove the components"	Separate requirement into 2 sentences.

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	16	577		3.4.2e	The Discussion section should clarify that this control is intended for systems that reside on the network indefinitely, as opposed to 800-171B 3.5.3e, which is intended to be applied as the system/component is joining the network.	Add link and distinction from 3.5.3e.
	MITRE (InfoSec)		Т	16	577		3.4.2e	The scope of this control should be clarified. Based on the guidance on page 11, this control would only apply to systems containing HVA.	Please confirm that scope of this control is only for detecting misconfiged/unauthorized systems containing HVA.
	MITRE (InfoSec)		E	16	592		3.4.3e	This requirement appears to be expanding on 800-171 3.4.1 by adding automation, accuracy, timeliness, and availability to the inventory requirement. It should be explicitly stated that these are enhancements to that control.	Link to 800-171 3.4.1.
	MITRE (InfoSec)		Т	16	592		3.4.3e	The scope of this control should be clarified. Based on the guidance on page 11, this control would only apply to systems containing HVA.	Please confirm that scope of this control is only to inventory systems containing HVA.

#	Organization Name	Submitted By		Page #^		Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	18	616	619	3.5.1e	Remove sentence starting with "For some architectures" as a built-in exception to the control is not appropriate (would be ideally put into a FAQ).	Remove sentence starting with "For some architectures"
	MITRE (InfoSec)		Т	18	621	623	3.5.2e	Are password managers not required if the system supports multifactor auth or complex account management?	Clarify intent.
	MITRE (InfoSec)		Т	18	621		3.5.2e	"Password manager" is not defined. Can we use a password manager that is on somebody's phone? Does it have to accomplish generation, rotation, and management to be compliant?	Clarify intent.
	MITRE (InfoSec)		E	18	634	639	3.5.2e	Remove sentences at the end of the Discussion section as these are not relevant to understanding how to implement the requirement.	Remove sentences from "Personnel turnover" to "security module)."

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	18	641	643	3.5.3e	Does this requirement apply only to connecting to systems with HVA? The control is written in such a way that it could be implied that any system connecting to the organizational network, but that scope exceeds the HVA scope identified on page 11.	Please confirm that scope of this control is only for system components connecting to systems containing HVA.
	MITRE (InfoSec)		E	18	641		3.5.3e	This control should reference 3.4.2e, as this is a variation of that control.	Add link to 3.4.2e.
	MITRE (InfoSec)		E	20	659		3.6.1e	Line 666 indicates the SOC needs to be 24/7, so this detail should be explicitly stated in the requirement itself.	Change "full-time" to "24/7".
	MITRE (InfoSec)		G	20	659		3.6.1e	For this control, like many others in -171B, it is not clear how contractors would bill the implementation of the control back to the government.	Clarify how contractors would bill a gov sponsor for this activity.
	MITRE (InfoSec)		Т	20	659		3.6.1e	The scope of this control should be clarified. Based on the guidance on page 11, this control would only apply to a SOC overseeing enclaves and systems that contain HVA.	Clarify scope to only address SOC's oversight of HVA.

	Organization	Submitted	Type*	Page	Starting	Ending	Section #	Comment	Suggested Change^
#	Name	Ву		#^	Line #^	Line #		(Include rationale for	
								comment)^	
	MITRE (InfoSec)		E	20	678	679	3.6.2e	The goal of this requirement is	Change "deployed to any
								to address cyber incidents, so	location" to "deployed to
								deployment to "any location" is	address any cyber incident"
								usually irrelevant. The critical	
								factor is being able to address	
								any sort of cyber incident	
								within 24 hours, and the	
								language should reflect this.	

#	Organization Name	Submitted By		Page #^	Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	23	707	708	3.9.1e	"Trustworthiness" is not a valid objective for personnel screening. There is no way to objectively assess trustworthiness. The requirement should be scaled back to just reviewing behavior/conduct periodically. At most, the Discussion section should reference activities that might be flags that would result in further evaluation, monitoring, etc. Also, nonfederal institutions may be subject to limits on vetting by national, state, and local laws. The language should acknowledge that those laws should dictate what/when/how screening can and should be performed. The existing language borders on privacy issues.	Rewrite for clarity: "Restrict direct access to organization networks and systems from any information resource that is not owned, provisioned, or issued by the organization."
	MITRE (InfoSec)		T	23	707	708	3.9.1e	Clarify if this is only for people with access to HVA systems.	Please confirm that scope of this control is only for systems containing HVA.

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	23	710		3.9.1e	The Discussion section provides no guidance on what sort of behaviors or findings would constitute red flags.	Clarify expectations.
	MITRE (InfoSec)		E	23	710		3.9.1e	This control is closely tied to 3.9.2e and 3.14.2e. Description should reference this.	Link to 3.9.2e and 3.14.2e.
	MITRE (InfoSec)		Т	23	723		3.9.2e	"Trustworthiness" is not a valid objective for personnel screening. There is no way to objectively assess trustworthiness. The requirement should be scaled back to just reviewing behavior/conduct periodically. At most, the Discussion section should reference activities that might be flags that would result in	Rewrite to: "Ensure that potential issues related to employee conduct and behavior are addressed such that organizational systems are protected."
	MITRE (InfoSec)		Т	23	726		3.9.2e	The Discussion section should address things like additional monitoring, mental health assistance, mentoring, role changes, and other pro-active measures to address issues related to an individual's conduct and behavior.	Modify guidance to provide appropriate recommended actions for conduct/behavior issues.

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	23	726		3.9.2e	This control is closely tied to 3.9.1e. Description should reference this.	Link to 3.9.1e.
	MITRE (InfoSec)		E	25	737		3.11.1e	This requirement should focus on using threat intelligence to develop security requirements, which would then inform these activities. If the intent is to use more advanced attack models, see below.	Change to "Employ threat intelligence to inform the creation of security requirements. Use requirements to: develop systems and architecture, select security solutions, and inform monitoring, threat hunting, and response and recovery activities."
	MITRE (InfoSec)		E	25	737		3.11.1e	If the intent is to encourage companies to use potential adversary attack models to inform various activities, the language should be clarified.	Rewrite to: "Employ adversary tactics and techniques beyond traditional indicators of compromise (IoCs) or signatures of malicious activity to inform the development of: system and security architectures, selection of security solutions, monitoring, threat hunting, and response and recovery activities."

#	Organization Name	Submitted By		Page #^	_	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	25	737		3.11.1e	It is not clear how compliance with this control (as written) could be assessed. Do new solutions, architectures, etc., have to demonstrate evidence that threat information was used in the decision? Does a system have to be created to track evidence that threat information was used? How do you document proof that threat information was used to inform development? How does a contractor show that threat information was used effectively?	Please clarify.
	MITRE (InfoSec)		Т	25	737		3.11.1e	It is unclear whether this control would actually achieve risk reduction. Threat intelligence does not necessarily translate into product development/selection.	Consider removing this control from the first version of -171B.

#	Organization Name	Submitted By	Type*	Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for	Suggested Change^
	MITRE (InfoSec)		E	26	781	785	3.11.3e	This requirement focuses on the solution to the problem, not on the problem that needs to be solved. The language should be more open-ended to facilitate future solutions that may address the same issue in a better way than existing capabilities.	l ' '
	MITRE (InfoSec)		E	26	781	785	3.11.3e	Content is not relevant to the implementation of the control.	Remove the sentences from "Note, however," through "are not able to conceal their activity."
	MITRE (InfoSec)		Е	26	787	789	3.11.4e	Run-on sentence, start second sentence with "Identify the system"	Separate requirement into 2 sentences.

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	26	789		3.11.4e	The final portion of this requirement, "dependencies on external service providers", should be a separate requirement. With DFARS external service providers are not handled via 800-171, but instead are subject to FedRAMP requirements. This is the first inference in 800-171 that external service providers are going to be part of -171 requirements, which is an important distinction.	Remove "dependencies on external service providers" and move this to a separate requirement. From the Discussion section, remove "When incorporating external to "by the service provider" to the Discussion section for the new requirement.
	MITRE (InfoSec)		Т	26			3.11.4e	It is not clear how the "risk basis for security solution selection" would be described. Many products are selected based on cost or other non-security factors, or selected by executive decision where the decision criteria is not documented. In order to implement this requirement, more guidance is needed on what, exactly, needs to be documented.	Clarify requirement.

#	Organization Name	Submitted By	Type*	Page #^		Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	26	791		3.11.4e	This requirement is a direct expansion to 800-171 3.12.4. It should be linked in the description.	Link to 3.12.4.
	MITRE (InfoSec)		Т	26	791		3.11.4e	The language should explicitly limit the scope of the requirement to only systems with HVA, so it is not misinterpreted.	Please confirm that scope of this control is only for systems containing HVA.
	MITRE (InfoSec)		Е	26	805		3.11.5e	It makes more sense to assess the "capabilities" of security solutions to address anticipated risk than the "effectiveness" of security solutions.	Change "effectiveness" to "capabilities".
	MITRE (InfoSec)		Т	26	805		3.11.5e	The term "security solution" is not defined in the Appendix.	Define "security solution".

#	Organization Name	Submitted By		Page #^	_	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		T	26	818	820	3.11.6e	There is insufficient guidance provided on how to assess and monitor supply chain risk. 800-161 refers to 800-53 controls that do not necessarily apply to 800-171 contracts. Mechanisms to assess, document, and monitor risks are not defined in the context of -171, and it is not clear if third party providers exist to assist with this task. NIST needs to provide additional guidance on how to flow requirements down and identify means of assessments for primes.	Additional guidance needed.
	MITRE (InfoSec)		Е	27	828	829	3.11.7e	A plan/program must also be implemented in order to be successful. Also recommend changing "plan" to "program" to indicate and on-going effort to achieve a particular strategy.	Sentence should begin "Develop, implement, and regularly update a process for managing supply chain risks"

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		T	27	831	845	3.11.7e	There is insufficient guidance provided on how to assess and monitor supply chain risk. 800-161 refers to 800-53 controls that do not necessarily apply to 800-171 contracts. Mechanisms to assess, document, and monitor risks are not defined in the context of -171, and it is not clear if third party providers exist to assist with this task. NIST needs to provide additional guidance on how to flow requirements down and identify means of assessments for primes.	Additional guidance needed on how risk is assessed and calculated.
	MITRE (InfoSec)		E	28	858	872	3.12.1e	Extra descriptive language is not needed for this Discussion section.	Delete all language starting with "Such constraints include" to "in its assessment."
	MITRE (InfoSec)		Т	29	877		3.13.1e	This is not written as a requirement that can be definitively implemented or assessed. What evidence can be provided to determine if the control is implemented?	Remove this control from the initial version of -171B to gather additional guidance on how the requirement could be implemented. If control is not removed, please define how this would be implemented/assessed.

#	Organization Name	Submitted By		Page #^	_	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	29	877		3.13.1e	It is not clear that this would provide actual risk reduction. What metric would provide evidence that this control is working effectively?	Please clarify how the control could be demonstrated to be working effectively.
	MITRE (InfoSec)		Т	29	879	893	3.13.1e	It is not clear what scope this control is intended to cover. If a single system with just an OS has HVA, how would the control be implemented? The control only makes sense if implemented across an enterprise, but that is in direct contrast to the scope guidance provided on page 11.	· · · · · · · · · · · · · · · · · · ·
	MITRE (InfoSec)		Т	29	879	893	3.13.1e	Although 800-171B is intended to enable billing sponsors for implementating the controls, it is not clear how this control could be billed back to a sponsor.	Provide guidance on how cost of this control could be appropriately billed to a sponsor.

#	Organization Name	Submitted By	Type*	Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	29	910		3.13.2e	This is not written as a requirement that can be definitively implemented or assessed. What evidence can be provided to determine if the control is implemented?	Remove this control from the initial version of -171B to gather additional guidance on how the requirement could be implemented. If left in the list, label it as "not selected" as other 800-53 controls have been.
	MITRE (InfoSec)		Т	29	910		3.13.2e	It is not clear that this would provide actual risk reduction. What metric would provide evidence that this control is working effectively? What industry examples demonstrate effective implementation of this control?	Please clarify how the control could be demonstrated to be working effectively.

#	Organization Name	Submitted By		Page #^		Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		T	29	913	928	3.13.2e	It is not clear what scope this control is intended to cover. If a single system has HVA, how would unpredictability, moving target defense, and/or nonpersistence be implemented? The control only makes sense if implemented across an enterprise, but that is in direct contrast to the scope guidance provided on page 11.	Please confirm that scope of this control is only for systems containing HVA.
	MITRE (InfoSec)		Т	29	913	928	3.13.2e	Although 800-171B is intended to enable billing sponsors for implementating the controls, it is not clear how this control could be billed back to a sponsor.	Provide guidance on how cost of this control could be appropriately billed to a sponsor.
	MITRE (InfoSec)		E	30	956		3.13.3e	This is not written as a requirement that can be definitively implemented or assessed. What evidence can be provided to determine if the control is implemented?	Remove this control from the initial version of -171B to gather additional guidance on how the requirement could be implemented. If left in the list, label it as "not selected" as other 800-53 controls have been.

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	30	956		3.13.3e	It is not clear that this would provide actual risk reduction. What metric would provide evidence that this control is working effectively? What industry examples demonstrate effective implementation of this control?	Please clarify how the control could be demonstrated to be working effectively.
	MITRE (InfoSec)		Т	30	959	974	3.13.3e	It is not clear what scope this control is intended to cover. As written, the deception and tainting would only be done on system(s) with HVA. The control only makes sense if implemented across an enterprise, but that is in direct contrast to the scope guidance provided on page 11.	Please confirm that scope of this control is only for systems containing HVA.
	MITRE (InfoSec)		T	30	959	974	3.13.3e	Although 800-171B is intended to enable billing sponsors for implementating the controls, it is not clear how this control could be billed back to a sponsor.	Provide guidance on how cost of this control could be appropriately billed to a sponsor.

#	Organization Name	Submitted By		Page #^		Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	31	976		3.13.4e	This requirement is an extension of 800-17 3.1.3 (control the flow), and is extremely similar to 800-171B 3.1.3e (employ solutions to limit transfer of data). The Discussion section should include explicit references to both requirements, and be clear about how they differ and/or expand on each other.	Consider merging this requirement with 3.1.3e. Otherwise, link to 3.1.3 and 3.1.3e.
	MITRE (InfoSec)		E	31	976		3.13.4e	The current language implies that both physical AND logical isolation techniques must be employed for HVA systems in order to comply with the control. While there are some use cases where both can be employed, requirnig both to be employed (especially physical) significantly reduces the types of architectural options than can be considered. A single	Change to "Employ physical and/or logical isolation techniques"

#	Organization Name	Submitted By		Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	31	978	1013	3.13.4e	Many system options (SharePoint, email, etc.) and cloud providers are not capable of utilizing physical AND logical isolation of data. This requirement seems to imply that those types of systems would be prohibited from handling HVA.	Please clarify.
	MITRE (InfoSec)		Т	33	1020	1021	3.14.1e	"Security critical or essential software" is not defined. How does this relate to HVA? The terminology is nebulous enough that it could be applied to just a handful of systems, or it could require a sizeable project just to identify all of the relevant systems.	Define "security critical or essential solution" in the context of the scope of HVA, or use HVA-specific language.
	MITRE (InfoSec)		E	33	1048		3.14.2e	As written, the control feels like it should already be in place based one or all of 800-171 3.13.1, 3.14.6, 3.14.7, and 800-171B 3.9.1e. Excplicitly describe how it enhances or differs from them, and provide links to the control(s) it relates to.	Clarify distinction from, and link to, one or more of 3.13.1, 3.14.6, 3.14.7, and 3.9.1e.

#	Organization Name	Submitted By	Type*	Page #^	_	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	33	1048	1063	3.14.2e	As written, this control only applies to suspicious behavior on HVA systems (per scope statement on page 11).	Please clarify that this control is only for suspicious behavior on HVA systems.
	MITRE (InfoSec)		Т	34	1072		3.14.3e	The Discussion section should clarify that, per the language on page 11, the scope of this control is only for IoT that connect or interact with HVA.	Clarify scope to only address IoT interacting with HVA.
	MITRE (InfoSec)		E	34	1088	1095	3.14.3e	Much of the Discussion section is aimed at describing the risk, instead of the methods of implementing the control. This information is appropriate for a supplementary document (e.g. a risk register), but is not needed for -171B.	Remove sentences from "The recent convergence" to "significant cyber threat."

#	Organization Name	Submitted By	Type*	Page #^	_	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	34	1098	1102	3.14.3e	The portion of this control dedicated to protecting devices that can not be made compliant is problematic. The purpose of an IoT device is often tied to its ability to connect directly to the Internet. While adding intermediary monitoring devices and segretating the IoT off to its own network segment make sense, isolation from the Internet does not. The language should supply a built-in exception, and should require the contractor to assess and accept the risk.	

#	Organization Name	Submitted By	Type*	Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		E	34	1104	1105	3.14.4e	The control assumes organizations have the capability to have system data and configuration files that can easily be exported to a backup state, then re-imported to a new or similar system such that the new system is immediately operational. This makes some sense if the user is just working on MS Office files, but is not viable when multiple vendor OS and applications are used and a fresh install requires manual configuration. The operational and data integrity impacts of this control are significant. A more sensible version of this control is to change the focus from "twice annually" to "when there are indicators of compromise", which is a practice most mature companies should already be doing.	Suggest changing language from "at least twice annually" to "trusted state when there are indicators of compromise."

Suggested Change [^]
If the focus of the control is
not changed to address
systems that are suspected of
compromise (see earlier
comments), suggest removing
this control from -171B, or
changing it to "Not Selected",
until it can be adequately
reviewed by industry and
security experts.

#	Organization Name	Submitted By	Type*	Page #^	Starting Line #^	Ending Line #	Section #	Comment (Include rationale for comment)^	Suggested Change^
	MITRE (InfoSec)		Т	35	1140	1150	3.14.5e	This requirement assumes organizations already have a way to label individual data elements, establish what appropriate ages for those elements are, and remove them automatically. Retention of CUI is often dictated by contractual requirements, which will override any other sources of retention guidance.	The requirement needs to focus on establishing and enforcing contractual requirements for purging CUI. If this is what is meant by "disposition schedules", the language should be clarified.
	MITRE (InfoSec)		Т	35	1140	1150	3.14.5e	This requirement does not indicate that the scope statement on P. 11 indicates this should only be for CUI associated with HVA systems.	Please clarify that this control is only for purging CUI from HVA systems.
	MITRE (InfoSec)		E	35	1146	1149	3.14.5e	Moving information to offline storage does not meet the Description's definition of purging, and should either be removed from the Discussion section, or added to the language of the 3.14.5e requirement.	Remove the sentence "Alternatively, information"

	Organization	Submitted	Type*	Page	Starting	Ending	Section #	Comment	Suggested Change^
#	Name	Ву		#^	Line #^	Line #		(Include rationale for	
								comment)^	
	MITRE (InfoSec)		Т	35	1137		3.14.5e	Some use cases of CUI (e.g.	Add acceptable caveat for
								research results) are specifically	research information that it
								intended to be retained and	intended to be available for
								available after the project is	future use.
								completed. This use case should	
								be addressed in the Discussion	
								section, such that it is not	
								unintentionally prohibited by	
								an interpretation of the	
								requirement language.	