

AMENDMENT TO RULES COMMITTEE PRINT 119-

33

OFFERED BY MR. LICCARDO OF CALIFORNIA

Add at the end of subtitle B of title VIII the following new section:

1 **SEC. 8___. SYSTEMS ENGINEERING TOOLS IN DEPART-**
2 **MENT OF DEFENSE ACQUISITION PROGRAMS.**

3 (a) **CONTRACTING POLICY GUIDANCE.**—Not later
4 than 180 days after the date of the enactment of this sec-
5 tion, the Under Secretary of Defense for Acquisition and
6 Sustainment shall, with respect to a solicitation for a con-
7 tract or task order for any systems and software engineer-
8 ing programs—

9 (1) require—

10 (A) the use of open and modular require-
11 ments management tools and model-based sys-
12 tems engineering tools that are not tied to spe-
13 cific offerors; and

14 (B) that such tools be compatible with—

15 (i) modern data interchange standards
16 (including the Requirements Interchange
17 Format and SysMLv2, and at a minimum,
18 next-generation systems modeling language

1 and international technological standards);

2 and

3 (ii) publicly available application pro-
4 gramming interfaces to facilitate integra-
5 tion with contemporary software develop-
6 ment environments and tools;

7 (2) require that all contractor-developed user
8 requirements data (including traceability, version
9 history, acceptance criteria, and verification links) be
10 delivered in non-proprietary, human-readable, and
11 machine-readable formats that are fully interoper-
12 able across platforms;

13 (3) require all program executive officers, pro-
14 gram managers, and contracting officers of the De-
15 partment of Defense to—

16 (A) ensure that contract requirements are
17 not tied to specific offerors in order to enable
18 full and open competition;

19 (B) evaluate the interoperability, data
20 portability, and openness of proposed require-
21 ments management tools and model-based sys-
22 tems engineering tools during source selection
23 and technical reviews; and

24 (C) prioritize the use of requirements man-
25 agement tools and model-based systems engi-

1 neering tools that demonstrate alignment with
2 modern software engineering principles, includ-
3 ing traceability, automation, real-time collabora-
4 tion, and extensibility through application pro-
5 gramming interfaces and plug-in architectures;

6 (4) prohibit reliance on proprietary or closed-
7 source tools that limit interoperability or constrain
8 access, reuse, or long-term data ownership; and

9 (5) encourage the use of cloud-native, collabo-
10 rative, and scalable software solutions for managing
11 user requirements and model-based systems engi-
12 neering tools that align with best practices for agile
13 development, security, and operations development
14 environments.

15 (b) REPORT TO CONGRESS.—Not later than 270 days
16 after the date of the enactment of this section, the Sec-
17 retary of Defense shall submit to the congressional defense
18 committees a report describing—

19 (1) the actions taken by each Secretary of a
20 military department and each head of a Defense
21 Agency to implement the requirements of subsection
22 (a); and

23 (2) any challenges with respect to such imple-
24 mentation and strategies for resolving such chal-
25 lenges.

1 (c) DEFINITIONS.—In this section:

2 (1) The term “model-based systems engineering
3 tool” means a software capability used to create,
4 manage, and analyze complex system digital models
5 across the life cycle of a defense acquisition pro-
6 gram.

7 (2) The term “portfolio acquisition executive”
8 means an official described in section 1732 of title
9 10, United States Code.

10 (3) The term “requirements management tool”
11 means a software capability used to capture, trace,
12 analyze, and manage user, system, and software re-
13 quirements across the life cycle of a defense acqui-
14 sition program.

