

AMENDMENT TO RULES COMMITTEE PRINT 116-

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OFFERED BY MR. RODNEY DAVIS OF ILLINOIS

At the end of subtitle E of title XVII, add the following new section:

1 **SEC. 17___ . BUILDING UNITED STATES CAPACITY FOR**
2 **VERIFICATION AND MANUFACTURING OF AD-**
3 **VANCED MICROELECTRONICS.**

4 (a) **IN GENERAL.**—The Secretary of Commerce, act-
5 ing through the Director of the National Institute of
6 Standards and Technology, shall carry out research and
7 development to enable advances and breakthroughs in
8 measurement science, standards, material characteriza-
9 tion, instrumentation, testing, and manufacturing capa-
10 bilities that will accelerate the underlying research and de-
11 velopment for design, development, and manufacturability
12 of next generation microelectronics and ensure the com-
13 petitiveness and leadership of the United States within the
14 microelectronics sector.

15 (b) **ELEMENTS.**—The activities under subsection (a)
16 shall include research and development in the following
17 areas:

1 (1) Advanced metrology and characterization
2 for manufacturing of microchips using 3 nanometer
3 transistor processes or more advanced processes.

4 (2) Metrology for security and supply chain
5 verification, including pre-silicon security verification
6 of the design for logical and physical vulnerabilities
7 beyond current functional analysis.

