AMENDMENT TO THE RULES COMMITTEE PRINT FOR H.R. 8

OFFERED BY MR. WELCH OF VERMONT

In chapter 2 of subtitle A of title IV, add at the end the following new section:

1	SEC SMART MANUFACTURING ASSISTANCE.
2	(a) DEFINITIONS.—In this section:
3	(1) Energy management system.—The term
4	"energy management system" means a business
5	management process based on standards of the
6	American National Standards Institute that enables
7	an organization to follow a systematic approach in
8	achieving continual improvement of energy perform-
9	ance, including energy efficiency, security, use, and
10	consumption.
11	(2) Industrial assessment center.—The
12	term "industrial assessment center" means a center
13	located at an institution of higher education that—
14	(A) receives funding from the Department
15	of Energy;
16	(B) provides an in-depth assessment of
17	small and medium-sized manufacturer plant

1	sites to evaluate the facilities, services, and
2	manufacturing operations of the plant site; and
3	(C) identifies opportunities for potential
4	savings for small and medium-sized manufac-
5	turer plant sites from energy efficiency improve-
6	ments, waste minimization, pollution preven-
7	tion, and productivity improvement.
8	(3) National Laboratory.—The term "Na-
9	tional Laboratory' has the meaning given the term
10	in section 2 of the Energy Policy Act of 2005 (42
11	U.S.C. 15801).
12	(4) Small and medium-sized manufactur-
13	ERS.—The term "small and medium-sized manufac-
14	turers" means manufacturing firms—
15	(A) classified in the North American In-
16	dustry Classification System as any of sectors
17	31 through 33;
18	(B) with gross annual sales of less than
19	\$100,000,000;
20	(C) with fewer than 500 employees at their
21	plant sites; and
22	(D) with annual energy bills totaling more
23	than $$100,000$ and less than $$2,500,000$.
24	(5) SMART MANUFACTURING.—The term
25	"smart manufacturing" means advanced tech-

1	nologies in information, automation, monitoring,
2	computation, sensing, and networking that—
3	(A) digitally simulate manufacturing pro-
4	duction lines, operate computer numerically
5	controlled and additive manufacturing equip-
6	ment, monitor and communicate production line
7	status, and manage and optimize energy, pro-
8	ductivity, and cost throughout production;
9	(B) model, simulate, and optimize the en-
10	ergy efficiency of a factory building, and mon-
11	itor and optimize building energy performance;
12	(C) model, simulate, and optimize the de-
13	sign of energy efficient and sustainable prod-
14	ucts, including the use of digital prototyping
15	and additive manufacturing to enhance product
16	design, and connect manufactured products in
17	networks to monitor and optimize their per-
18	formance, including automated network oper-
19	ations; and
20	(D) digitally connect the supply chain net-
21	work.
22	(b) Expansion of Technical Assistance Pro-
23	GRAMS.—The Secretary of Energy shall expand the scope
24	of technologies covered by the industrial assessment cen-
25	ters of the Department of Energy—

1	(1) to include smart manufacturing technologies
2	and practices; and
3	(2) to equip the directors of the industrial as-
4	sessment centers with the training and tools nec-
5	essary to provide technical assistance in smart man-
6	ufacturing technologies and practices, including en-
7	ergy management systems, to manufacturers.
8	(c) Leveraging Smart Manufacturing Infra-
9	STRUCTURE AT NATIONAL LABORATORIES.—
10	(1) Study.—
11	(A) IN GENERAL.—Not later than 180
12	days after the date of enactment of this Act,
13	the Secretary of Energy shall conduct a study
14	on ways in which the Department of Energy
15	can increase access to existing high-perform-
16	ance computing resources in the National Lab-
17	oratories, particularly for small and medium-
18	sized manufacturers.
19	(B) Inclusions.—In identifying ways to
20	increase access to National Laboratories under
21	subparagraph (A), the Secretary shall—
22	(i) focus on increasing access to the
23	computing facilities of the National Lab-
24	oratories; and
25	(ii) ensure that—

1	(I) the information from the
2	manufacturer is protected; and
3	(II) the security of the National
4	Laboratory facility is maintained.
5	(C) Report.—Not later than 1 year after
6	the date of enactment of this Act, the Secretary
7	shall submit to Congress a report describing the
8	results of the study.
9	(2) ACTIONS FOR INCREASED ACCESS.—The
10	Secretary shall facilitate access to the National Lab-
11	oratories studied under paragraph (1) for small and
12	medium-sized manufacturers so that small and me-
13	dium-sized manufacturers can fully use the high-per-
14	formance computing resources of the National Lab-
15	oratories to enhance the manufacturing competitive-
16	ness of the United States.

