

expenditures in adapting the core software program to the requirements of C, one of X's customers.

(ii) *Conclusion.* Because X's activities represent activities to adapt an existing software program to a particular customer's requirement or need, X's activities are excluded from the definition of qualified research under section 41(d)(4)(B) and paragraph (c)(3) of this section.

Example 4. (i) Facts. The facts are the same as in *Example 3*, except that C pays X to adapt the core software program to C's requirements.

(ii) *Conclusion.* Because X's activities are excluded from the definition of qualified research under section 41(d)(4)(B) and paragraph (c)(3) of this section, C's payments to X are not for qualified research and are not considered to be contract research expenses under section 41(b)(3)(A).

Example 5. (i) Facts. The facts are the same as in *Example 3*, except that C's own employees adapt the core software program to C's requirements.

(ii) *Conclusion.* Because C's employees' activities to adapt the core software program to C's requirements are excluded from the definition of qualified research under section 41(d)(4)(B) and paragraph (c)(3) of this section, the wages C paid to its employees do not constitute in-house research expenses under section 41(b)(2)(A).

Example 6. (i) Facts. X manufactures and sells rail cars. Because rail cars have numerous specifications related to performance, reliability and quality, rail car designs are subject to extensive, complex testing in the scientific or laboratory sense. B orders passenger rail cars from X. B's rail car requirements differ from those of X's other existing customers only in that B wants fewer seats in its passenger cars and a higher quality seating material and carpet that are commercially available. X manufactures rail cars meeting B's requirements.

(ii) *Conclusion.* X's activities to manufacture rail cars for B are excluded from the definition of qualified research. The rail car sold to B was not a new business component, but merely an adaptation of an existing business component that did not require a process of experimentation. Thus, X's activities to manufacture rail cars for B are excluded from the definition of qualified research under section 41(d)(4)(B) and paragraph (c)(3) of this section because X's activities represent activities to adapt an existing business component to a particular customer's requirement or need.

Example 7. (i) Facts. X, a manufacturer, undertakes to create a manufacturing process for a new valve design. X determines that it requires a specialized type of robotic equipment to use in the manufacturing process for its new valves. Such robotic equipment is not commercially available, and X, therefore, purchases the existing robotic equipment for the purpose of modifying it to meet its needs. X's engineers identify uncertainty that is technological in nature concerning how to modify the existing robotic equipment to meet its needs. X's engineers develop several alternative designs, and conduct experiments using modeling and simulation in modifying the robotic

equipment and conduct extensive scientific and laboratory testing of design alternatives. As a result of this process, X's engineers develop a design for the robotic equipment that meets X's needs. X constructs and installs the modified robotic equipment on its manufacturing process.

(ii) *Conclusion.* X's research activities to determine how to modify X's robotic equipment for its manufacturing process are not excluded from the definition of qualified research under section 41(d)(4)(B) and paragraph (c)(3) of this section, provided that X's research activities satisfy the requirements of section 41(d)(1).

Example 8. (i) Facts. An existing gasoline additive is manufactured by Y using three ingredients, A, B, and C. X seeks to develop and manufacture its own gasoline additive that appears and functions in a manner similar to Y's additive. To develop its own additive, X first inspects the composition of Y's additive, and uses knowledge gained from the inspection to reproduce A and B in the laboratory. Any differences between ingredients A and B that are used in Y's additive and those reproduced by X are insignificant and are not material to the viability, effectiveness, or cost of A and B. X desires to use with A and B an ingredient that has a materially lower cost than ingredient C. Accordingly, X engages in a process of experimentation to develop, analyze and test potential alternative formulations of the additive.

(ii) *Conclusion.* X's activities in analyzing and reproducing ingredients A and B involve duplication of existing business components and are excluded from the definition of qualified research under section 41(d)(4)(C) and paragraph (c)(4) of this section. X's experimentation activities to develop potential alternative formulations of the additive do not involve duplication of an existing business component and are not excluded from the definition of qualified research under section 41(d)(4)(C) and paragraph (c)(4) of this section.

Example 9. (i) Facts. X, a manufacturing corporation, undertakes to restructure its manufacturing organization. X organizes a team to design an organizational structure that will improve X's business operations. The team includes X's employees as well as outside management consultants. The team studies current operations, interviews X's employees, and studies the structure of other manufacturing facilities to determine appropriate modifications to X's current business operations. The team develops a recommendation of proposed modifications which it presents to X's management. X's management approves the team's recommendation and begins to implement the proposed modifications.

(ii) *Conclusion.* X's activities in developing and implementing the new management structure are excluded from the definition of qualified research under section 41(d)(4)(D) and paragraph (c)(5) of this section. Qualified research does not include activities relating to management functions or techniques including management organization plans and management-based changes in production processes.

Example 10. (i) Facts. X, an insurance company, develops a new life insurance

product. In the course of developing the product, X engages in research with respect to the effect of pricing and tax consequences on demand for the product, the expected volatility of interest rates, and the expected mortality rates (based on published data and prior insurance claims).

(ii) *Conclusion.* X's activities related to the new product represent research in the social sciences (including economics and business management) and are thus excluded from the definition of qualified research under section 41(d)(4)(G) and paragraph (c)(8) of this section.

(d) *Recordkeeping for the research credit.* A taxpayer claiming a credit under section 41 must retain records in sufficiently usable form and detail to substantiate that the expenditures claimed are eligible for the credit. For the rules governing record retention, see § 1.6001-1. To facilitate compliance and administration, the IRS and taxpayers may agree to guidelines for the keeping of specific records for purposes of substantiating research credits.

(e) *Effective dates.* This section is applicable for taxable years ending on or after December 31, 2003.

PART 602—OMB CONTROL NUMBERS UNDER THE PAPERWORK REDUCTION ACT

■ **Par. 4.** The authority citation for part 602 continues to read in part as follows:

Authority: 26 U.S.C. 7805 * * *.

■ **Par. 5.** In § 602.101, paragraph (b) is amended by removing the entry from the table for § 1.41-4(d).

Mark E. Matthews,

Deputy Commissioner for Services and Enforcement.

Pamela Olson,

Assistant Secretary of the Treasury.

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DEPARTMENT OF AGRICULTURE

Forest Service

36 CFR Part 223

RIN 0596-AB48

Sale and Disposal of National Forest System Timber; Extension of Timber Sale Contracts To Facilitate Urgent Timber Removal From Other Lands

AGENCY: Forest Service, USDA.

ACTION: Final rule.

SUMMARY: The Department is adopting regulations to provide authority for Regional Foresters to authorize Contracting Officers to extend the contract performance time on certain