

AMERICAN ELECTRIC TECHNOLOGIES, INC.

Proxy for Annual Meeting of Stockholders

To Be Held on May 7, 2009

THIS PROXY IS SOLICITED ON BEHALF OF THE BOARD OF DIRECTORS OF THE COMPANY

PLEASE SIGN, DATE AND RETURN PROMPTLY BY MAIL OR FAX

MAIL - Date, sign and mail to:

John H. Untereker, Secretary
American Electric Technologies, Inc.
6410 Long Drive
Houston, TX 77087

-or-

FAX- Date, sign and fax to:

713-644-7805

The undersigned hereby appoints Arthur G. Dauber and John H. Untereker, and each of them, with full power of substitution, as proxies to represent and vote, as designated herein, all shares of Common Stock of AMERICAN ELECTRIC TECHNOLOGIES, INC. (the "Company") which the undersigned would be entitled to vote if personally present at the Annual Meeting of Stockholders of the Company to be held on May 7, 2009 at 1:00 p.m., local time, and at any adjournment thereof.

PROPOSAL NO. 1. Election of Directors.

For all nominees listed below: ☐

Withhold authority to vote all nominees listed below:
☐

INSTRUCTION: To withhold authority to vote for any individual nominee, strike a line through the nominee's name in the list below:

Arthur G. Dauber J. Hoke Peacock II Stuart Schube
Peter Menikoff Howard W. Kelley Thomas P. Callahan

PROPOSAL NO. 2. To ratify the selection of the Company's independent auditor for the fiscal year ending December 31, 2009.

For ☐ Against ☐ Abstain ☐

In their discretion, the proxies are authorized to vote upon such other matters as may properly come before the meeting or any adjournment thereof.

THIS PROXY WILL BE VOTED IN THE MANNER DIRECTED HEREIN.

IF NO DIRECTION IS GIVEN, THIS PROXY WILL BE VOTED "FOR" PROPOSALS 1 and 2.

Please sign exactly as name appears below. When shares are held by joint tenants, both should sign. When signing as attorney, executor, administrator, trustee or guardian, please give full title as such. If a corporation, please sign in full corporate name by President or other authorized officer. If a partnership, please sign in partnership name by an authorized person.

Dated: _____, 2009

(signature)

(signature, if held jointly)