

Registration No. -----

SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549  
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FORM S-8

REGISTRATION STATEMENT  
Under  
THE SECURITIES ACT OF 1933  
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TEXAS INSTRUMENTS INCORPORATED  
(Exact name of Registrant as specified in its charter)

Delaware 75-0289970  
(State or other jurisdiction of (I.R.S. Employer  
incorporation or organization) Identification No.)

13500 North Central Expressway  
P.O. Box 655474  
Dallas, Texas 75265-5474  
(Address of principal executive offices including zip code)  
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TEXAS INSTRUMENTS LONG-TERM INCENTIVE PLAN  
(Full title of the plans)  
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Richard J. Agnich,  
Senior Vice President, Secretary and General Counsel  
Texas Instruments Incorporated  
13500 North Central Expressway  
P.O. Box 655474  
Dallas, Texas 75265-5474  
(Name and address of agent for service)

(972)995-2551  
(Telephone number, including area code, of agent for service)  
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CALCULATION OF REGISTRATION FEE  
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Title of securities to be registered	Amount to be registered	Proposed maximum offering price per share*	Proposed maximum aggregate offering price*	Amount of registration fee*
Common Stock (\$1 par value)	350,000	\$90.3125	\$31,609,375	\$9,578.60

\*Computed on the basis of the average of the high and low prices for Common Stock on July 8, 1997, which is used as the estimated offering price solely for the purpose of determining the registration fee in accordance with Rule 457 under the Securities Act of 1933.  
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The contents of the Company's previously filed Registration Statement on Form S-8, File No. 33-61154, covering shares of Texas Instruments Incorporated common stock, par value \$1.00, issuable under the Texas Instruments Long-Term Incentive Plan, is hereby incorporated by reference herein.

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly

authorized, in the City of Dallas and State of Texas, on the 15th day of July, 1997.

TEXAS INSTRUMENTS INCORPORATED  
(Registrant)

By: /s/ WILLIAM A. AYLESWORTH

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William A. Aylesworth  
Senior Vice President, Treasurer  
and Chief Financial Officer

Pursuant to the requirements of the Securities Act of 1933, this registration statement has been signed by the following persons in the capacities indicated on the 15th day of July, 1997.

Signature	Title
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*JAMES R. ADAMS	
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James R. Adams	Chairman of the Board; Director
*DAVID L. BOREN	
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David L. Boren	Director
*JAMES B. BUSEY IV	
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James B. Busey IV	Director
*THOMAS J. ENGIBOUS	
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Thomas J. Engibous	President; Chief Executive Officer; Director
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Gerald W. Fronterhouse	Director
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David R. Goode	Director
*WAYNE R. SANDERS	
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Wayne R. Sanders	Director
*GLORIA M. SHATTO	
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Gloria M. Shatto	Director
*WILLIAM P. WEBER	
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William P. Weber	Vice Chairman; Director
*CLAYTON K. YEUTTER	
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Clayton K. Yeutter	Director
/s/ WILLIAM A. AYLESWORTH	
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William A. Aylesworth	Senior Vice President; Treasurer; Chief Financial Officer; Chief Accounting Officer

\*By: /s/ WILLIAM A. AYLESWORTH

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William A. Aylesworth  
Attorney-in-fact

INDEX TO EXHIBITS

Exhibit Number	Exhibit
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4	Certificate of Amendment to Restated Certificate of Incorporation of the Registrant (incorporated by reference to Exhibit 3 to the
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Registrant's Quarterly Report on Form 10-Q for the quarter ended June 30, 1996).

- 5 Opinion of Richard J. Agnich, Esq.
- 23(a) Consent of Independent Auditors.
- 23(b) Consent of Richard J. Agnich, Esq. (included in Exhibit 5).
- 24 Powers of Attorney for the Directors of the Company.

July 15, 1997

Board of Directors  
Texas Instruments Incorporated  
13500 North Central Expressway  
Dallas, Texas 75265

Re: Texas Instruments Incorporated  
Registration Statement (Form S-8)

Gentlemen:

This opinion of counsel is given in connection with a Registration Statement (Form S-8) being filed by you with the Securities and Exchange Commission relating to 350,000 shares of common stock of Texas Instruments Incorporated ("TI") to be issued pursuant to awards granted under the Texas Instruments Long-Term Incentive Plan (the "Plan").

As Senior Vice President, Secretary and General Counsel of TI, I am familiar with all corporate action taken or expected to be taken with respect to the Plan and the common stock expected to be issued thereunder.

I am pleased to advise that the 350,000 shares of common stock of TI, when issued and delivered in accordance with the terms of the Plan and applicable Delaware General Corporation Law, will be duly authorized, validly issued, fully paid and nonassessable.

I hereby consent to the use of this opinion as an exhibit to the above-referenced Registration Statement.

Sincerely,

/s/ RICHARD J. AGNICH

Richard J. Agnich  
Senior Vice President, Secretary  
and General Counsel

CONSENT OF INDEPENDENT AUDITORS

We consent to the incorporation by reference in the Registration Statement (Form S-8) pertaining to the Texas Instruments Long-Term Incentive Plan of our report dated January 22, 1997, with respect to the consolidated financial statements of Texas Instruments Incorporated incorporated by reference in its Annual Report (Form 10-K) for the year ended December 31, 1996 and the related financial statement schedule included therein, filed with the Securities and Exchange Commission.

/s/ ERNST & YOUNG LLP  
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Ernst & Young LLP

July 14, 1997  
Dallas, Texas

## POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned constitutes and appoints THOMAS J. ENGIBOUS, RICHARD J. AGNICH and WILLIAM A. AYLESWORTH, and each of them, with full power to act without the others, his true and lawful attorneys-in-fact and agents, with full and several power of substitution, for him and in his name, place and stead, in any and all capacities, to sign a Registration Statement on Form S-8 in connection with the registration of 350,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Long-Term Incentive Plan, a Registration Statement on Form S-8 in connection with the registration of 5,000,000 shares of common stock of Texas Instruments Incorporated for issuance under the TI Employees 1997 Stock Purchase Plan, a Post-Effective Amendment No. 1 to a Registration Statement on Form S-8 in connection with shares of common stock of Texas Instruments Incorporated registered for issuance under the TI Employees 1988 Stock Option Purchase Plan and a Registration Statement on Form S-8 in connection with the registration of 100,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Restricted Stock Unit Plan for Directors, and any or all amendments or supplements to such Registration Statements, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on this 1st day of July, 1997.

/s/ JAMES R. ADAMS

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James R. Adams

## POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned constitutes and appoints JAMES R. ADAMS, THOMAS J. ENGIBOUS, RICHARD J. AGNICH and WILLIAM A. AYLESWORTH, and each of them, with full power to act without the others, his true and lawful attorneys-in-fact and agents, with full and several power of substitution, for him and in his name, place and stead, in any and all capacities, to sign a Registration Statement on Form S-8 in connection with the registration of 350,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Long-Term Incentive Plan, a Registration Statement on Form S-8 in connection with the registration of 5,000,000 shares of common stock of Texas Instruments Incorporated for issuance under the TI Employees 1997 Stock Purchase Plan, a Post-Effective Amendment No. 1 to a Registration Statement on Form S-8 in connection with shares of common stock of Texas Instruments Incorporated registered for issuance under the TI Employees 1988 Stock Option Purchase Plan and a Registration Statement on Form S-8 in connection with the registration of 100,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Restricted Stock Unit Plan for Directors, and any or all amendments or supplements to such Registration Statements, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in

and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on this 7th day of July, 1997.

/s/ DAVID L. BOREN

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David L. Boren

EXHIBIT 24

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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned constitutes and appoints JAMES R. ADAMS, THOMAS J. ENGIBOUS, RICHARD J. AGNICH and WILLIAM A. AYLESWORTH, and each of them, with full power to act without the others, his true and lawful attorneys-in-fact and agents, with full and several power of substitution, for him and in his name, place and stead, in any and all capacities, to sign a Registration Statement on Form S-8 in connection with the registration of 350,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Long-Term Incentive Plan, a Registration Statement on Form S-8 in connection with the registration of 5,000,000 shares of common stock of Texas Instruments Incorporated for issuance under the TI Employees 1997 Stock Purchase Plan, a Post-Effective Amendment No. 1 to a Registration Statement on Form S-8 in connection with shares of common stock of Texas Instruments Incorporated registered for issuance under the TI Employees 1988 Stock Option Purchase Plan and a Registration Statement on Form S-8 in connection with the registration of 100,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Restricted Stock Unit Plan for Directors, and any or all amendments or supplements to such Registration Statements, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on this 2nd day of July, 1997.

/s/ JAMES B. BUSEY IV

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James B. Busey IV

## POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned constitutes and appoints JAMES R. ADAMS, RICHARD J. AGNICH and WILLIAM A. AYLESWORTH, and each of them, with full power to act without the other, his true and lawful attorneys-in-fact and agents, with full and several power of substitution, for him and in his name, place and stead, in any and all capacities, to sign a Registration Statement on Form S-8 in connection with the registration of 350,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Long-Term Incentive Plan, a Registration Statement on Form S-8 in connection with the registration of 5,000,000 shares of common stock of Texas Instruments Incorporated for issuance under the TI Employees 1997 Stock Purchase Plan, a Post-Effective Amendment No. 1 to a Registration Statement on Form S-8 in connection with shares of common stock of Texas Instruments Incorporated registered for issuance under the TI Employees 1988 Stock Option Purchase Plan and a Registration Statement on Form S-8 in connection with the registration of 100,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Restricted Stock Unit Plan for Directors, and any or all amendments or supplements to such Registration Statements, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on this 2nd day of July, 1997.

/s/ THOMAS J. ENGIBOUS  
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Thomas J. Engibous

## POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned constitutes and appoints JAMES R. ADAMS, THOMAS J. ENGIBOUS, RICHARD J. AGNICH and WILLIAM A. AYLESWORTH, and each of them, with full power to act without the others, his true and lawful attorneys-in-fact and agents, with full and several power of substitution, for him and in his name, place and stead, in any and all capacities, to sign a Registration Statement on Form S-8 in connection with the registration of 350,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Long-Term Incentive Plan, a Registration Statement on Form S-8 in connection with the registration of 5,000,000 shares of common stock of Texas Instruments Incorporated for issuance under the TI Employees 1997 Stock Purchase Plan, a Post-Effective Amendment No. 1 to a Registration Statement on Form S-8 in connection with shares of common stock of Texas Instruments Incorporated registered for issuance under the TI Employees 1988 Stock Option Purchase Plan and a Registration Statement on Form S-8 in connection with the registration of 100,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Restricted Stock Unit Plan for Directors, and any or all amendments or supplements to such Registration Statements, and to file the same, with all exhibits thereto, and other documents in connection



therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on this 3rd day of July, 1997.

/s/ WAYNE R. SANDERS  
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Wayne R. Sanders

EXHIBIT 24  
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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned constitutes and appoints JAMES R. ADAMS, THOMAS J. ENGIBOUS, RICHARD J. AGNICH and WILLIAM A. AYLESWORTH, and each of them, with full power to act without the others, her true and lawful attorneys-in-fact and agents, with full and several power of substitution, for her and in her name, place and stead, in any and all capacities, to sign a Registration Statement on Form S-8 in connection with the registration of 350,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Long-Term Incentive Plan, a Registration Statement on Form S-8 in connection with the registration of 5,000,000 shares of common stock of Texas Instruments Incorporated for issuance under the TI Employees 1997 Stock Purchase Plan, a Post-Effective Amendment No. 1 to a Registration Statement on Form S-8 in connection with shares of common stock of Texas Instruments Incorporated registered for issuance under the TI Employees 1988 Stock Option Purchase Plan and a Registration Statement on Form S-8 in connection with the registration of 100,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Restricted Stock Unit Plan for Directors, and any or all amendments or supplements to such Registration Statements, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on this 1st day of July, 1997.

/s/ GLORIA M. SHATTO  
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Gloria M. Shatto

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned constitutes and appoints JAMES R. ADAMS, THOMAS J. ENGIBOUS, RICHARD J. AGNICH and WILLIAM A. AYLESWORTH, and each of them, with full power to act without the others, his true and lawful attorneys-in-fact and agents, with full and several power of substitution, for him and in his name, place and stead, in any and all capacities, to sign a Registration Statement on Form S-8 in connection with the registration of 350,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Long-Term Incentive Plan, a Registration Statement on Form S-8 in connection with the registration of 5,000,000 shares of common stock of Texas Instruments Incorporated for issuance under the TI Employees 1997 Stock Purchase Plan, a Post-Effective Amendment No. 1 to a Registration Statement on Form S-8 in connection with shares of common stock of Texas Instruments Incorporated registered for issuance under the TI Employees 1988 Stock Option Purchase Plan and a Registration Statement on Form S-8 in connection with the registration of 100,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Restricted Stock Unit Plan for Directors, and any or all amendments or supplements to such Registration Statements, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on this 1st day of July, 1997.

/s/ WILLIAM P. WEBER  
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William P. Weber

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned constitutes and appoints JAMES R. ADAMS, THOMAS J. ENGIBOUS, RICHARD J. AGNICH and WILLIAM A. AYLESWORTH, and each of them, with full power to act without the others, his true and lawful attorneys-in-fact and agents, with full and several power of substitution, for him and in his name, place and stead, in any and all capacities, to sign a Registration Statement on Form S-8 in connection with the registration of 350,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Long-Term Incentive Plan, a Registration Statement on Form S-8 in connection with the registration of 5,000,000 shares of common stock of Texas Instruments Incorporated for issuance under the TI Employees 1997 Stock Purchase Plan, a Post-Effective Amendment No. 1 to a Registration Statement on Form S-8 in connection with shares of common stock of Texas Instruments Incorporated registered for issuance under the TI Employees 1988 Stock Option Purchase Plan and a Registration Statement on Form S-8 in connection with the registration of 100,000 shares of common stock of Texas Instruments Incorporated for issuance

under the Texas Instruments Restricted Stock Unit Plan for Directors, and any or all amendments or supplements to such Registration Statements, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on this 2nd day of July, 1997.

/s/ CLAYTON K. YEUTTER  
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Clayton K. Yeutter

EXHIBIT 24  
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POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, that the undersigned constitutes and appoints JAMES R. ADAMS, THOMAS J. ENGIBOUS and RICHARD J. AGNICH, and each of them, with full power to act without the other, his true and lawful attorneys-in-fact and agents, with full and several power of substitution, for him and in his name, place and stead, in any and all capacities, to sign a Registration Statement on Form S-8 in connection with the registration of 350,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Long-Term Incentive Plan, a Registration Statement on Form S-8 in connection with the registration of 5,000,000 shares of common stock of Texas Instruments Incorporated for issuance under the TI Employees 1997 Stock Purchase Plan, a Post-Effective Amendment No. 1 to a Registration Statement on Form S-8 in connection with shares of common stock of Texas Instruments Incorporated registered for issuance under the TI Employees 1988 Stock Option Purchase Plan and a Registration Statement on Form S-8 in connection with the registration of 100,000 shares of common stock of Texas Instruments Incorporated for issuance under the Texas Instruments Restricted Stock Unit Plan for Directors, and any or all amendments or supplements to such Registration Statements, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as he might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents or any of them, or their or his substitutes, may lawfully do or cause to be done by virtue hereof.

IN WITNESS WHEREOF, the undersigned has executed this Power of Attorney on this 1st day of July, 1997.

/s/ WILLIAM A. AYLESWORTH  
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William A. Aylesworth