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3/28/75

THE WHITE HOUSE

WASHINGTON

March 24, 1975

MEMORANDUM FOR THE PRESIDENT

THROUGH: DONALD RUMSFELD  
FROM: WILLIAM N. WALKER *Walker*  
SUBJECT: Tennessee Valley Authority

Attached is the memorandum on this subject which we discussed on Friday. You selected James Hooper of Mississippi. In addition to the support for Hooper reflected in the memorandum, I advised you that he was supported by a unanimous joint resolution of the Mississippi State Legislature and also by the Republican National Committeewoman in Tennessee.

I have been in communication with Congressman Jack Edwards' office on a couple of occasions and also Congressman John Buchanan came to see me Friday morning. Both of them are supporting an individual named Thomas Longshore, who is one of those on the memorandum and was, at least in my mind, the runner-up candidate.

THE WHITE HOUSE

WASHINGTON

March 21, 1975

MEMORANDUM FOR THE PRESIDENT

THROUGH: DONALD RUMSFELD  
FROM: WILLIAM N. WALKER  
SUBJECT: Director, Tennessee Valley  
Authority, Level IV (PAS)

The attached memorandum has evoked the following responses:

Hooper - Vice President, Hartmann, Buchen, Baroody, Lynn,  
Morton, Smith, Cannon.

Hooper or Longshore - Rhodes.

Gibbons - Marsh.

Approves all Candidates - Scott.

No Comment - Seidman.

THE WHITE HOUSE  
WASHINGTON

MEMORANDUM FOR THE PRESIDENT

THROUGH: DONALD RUMSFELD

FROM: WILLIAM N. WALKER

SUBJECT: Director, Tennessee Valley  
Authority, Level IV (PAS)

The TVA is a corporation created by an Act of Congress in 1933 for the purpose of conducting a unified program of resource conservation, development and use to advance the economic development of the Tennessee Valley region. This mandate has been dominated by the need for the development of electric power for the region, and consequently the TVA's primary function is as the wholesale power supplier for 160 local municipal and cooperative electric systems serving nearly two and one-half million customers in parts of seven states. All functions of the TVA are vested in the three members of the Board of Directors appointed by you, confirmed by the Senate, and who serve for nine-year terms.

THE ISSUES

The major issues confronting the TVA stem mostly from over-ambition. There is a growing controversy over how much more development is necessary and to what extent the Federal Government should continue to participate in guaranteeing bond issues for further expansion. In 1976 their budget for new power generating facilities will be \$935 million. The appearance of government subsidy, however indirect, is manifest by the fact that the cost of electricity sold by the TVA is 30 to 60% cheaper than in some regions of the Country. Also, there is a growing concern from environmental groups about the environmental impact of new coal-fired and nuclear generating plants and a general concern of the citizenry of the region that the Board of Directors has been a closed and unresponsive group dominated by Tennesseans.

## CANDIDATES

The following is a presentation of individuals, listed in order of preference, who wish to be considered for this appointment. In this forced ranking, I have taken into consideration the candidates' ability to contribute substantively, their political support, as well as the personal qualifications that would indicate success in the atmosphere of a three-man commission.

James F. Hooper, III, age 60, a Republican, of Mississippi, (resume at Tab A), is a 1938 graduate of Auburn University in Industrial Engineering. He was a pilot during WWII, and subsequently an entrepreneur in farming, food processing, cattle, real estate, tree farming, and farm equipment leasing. He has been very successful in these endeavors and an extremely active and interested citizen. He has been a member of the Mississippi State Republican Executive Committee for ten years, Chairman of the Lowndes County Republican Party, and is the husband of the Republican National Committeewoman from Mississippi. During our interviews we found Hooper to be well informed on the issues facing the TVA and a proponent of more development for the northern Mississippi region. Hooper is a positive and forceful individual, politically conservative, and would make a first-rate director. He is supported by State Republican Chairman Clarke Reed, Trent Lott, Thad Cochran, Gillespie Montgomery, Jamie Whitten, David Bowen, the RNC, Governor Bill Waller, Senators Stennis and Eastland, and Georgia State Republican Chairman Robert Shaw.

Zack Thompson, age 44, a Republican, of Alabama, (resume at Tab B), is currently Assistant Chief Engineer for the Marshall Space Flight Center, NASA, in Huntsville, Alabama. He is a life-long Republican, and has been active in Republican affairs during times when he was not restricted from doing so under the Hatch Act. He is a graduate in Electrical Engineering from the University of Tennessee in 1957, and ten years later received a Masters Degree in Engineering, also from the University of Tennessee. He would be in favor of more development in the Valley because "...people are entitled to as much energy as they need and can afford..." From a personal qualities standpoint, he would be suitable to serve on the Board of Directors. He is supported by Congressmen John J. Duncan, Butler Derrick, and Senator Strom Thurmond.

Dr. John H. Gibbons, age 46, a Republican, of Knoxville, Tennessee, (resume at Tab C), is a 1949 graduate of Randolph Macon College and

received his Ph.D. in Physics from Duke University in 1954. He was an employee of the Oakridge National Laboratory for almost 20 years until he left to become the Director of the Environment Center at the University of Tennessee. In September of 1973, he was recruited by the Department of the Interior to be the Director of the Office of Energy Conservation, and shortly after FEA absorbed that function, he returned to Tennessee. Dr. Gibbons has spent 20 years in the TVA region and describes himself as a loyal critic concerned about the expansion of TVA's facilities when demand growth is uncertain. He wants TVA to be more responsible to the public, be more sensitive to land use planning, and be a leader rather than a follower in the efficiency of power generation. He is on good terms with the environmentalists of the region and is supported by Senator Brock.

Thomas L. Longshore, age 43, a Republican, of Alabama, (resume at Tab D), is currently the Department Head of Special Projects for the Alabama Power Company. He is a graduate of the University of Alabama with a B.S. in Commerce and Business Administration and also holds an LLB from that University. He has been an active Republican for many years, supporting campaigns of his father and brother and serving as Secretary/Treasurer of the Jefferson County Young Republicans. He believes the TVA has still much development potential in northern Alabama. During our discussions, we sensed that his feel for the issues facing the TVA were not good. He is supported by Congressmen Caldwell Butler, Jack Edwards, and John Duncan, Senator John Sparkman, and Alabama State Party Chairman Richard Bennett.

H. Maynard Layman, age 68, a Democrat, of Alabama, (resume at Tab E), is currently the Circulation Manager and Farm Editor for The Decatur Daily newspaper. He has spent thirty-five years with this employer and has had a distinguished record of local community service. He is definitely a developmentalist for the northern Alabama region, and has only a shallow grasp of the issues and problems facing the TVA. He is supported by Congressman Robert E. Jones and Senator John Sparkman. He is clearly not a good candidate.

#### RECOMMENDATION

An appointment of James Hooper has the greatest benefit politically. The Mississippi party complains bitterly that they have been totally

overlooked for patronage positions in government. Also, for the first time in recent history there is a chance to elect a Republican governor to the State of Mississippi. The northern part of the State is important to that election and the visibility of a home state appointee to the TVA would be most desirable. Hooper is also strong enough substantively to be a good appointment. I recommend that you nominate Hooper to replace Donald O. McBride, whose term expires May 18, 1975 and who does not seek reappointment.

\_\_\_\_\_ Agree

\_\_\_\_\_ Disagree

JAMES FULLERTON HOOPER, III

800 8th Street North  
Columbus, Miss..

Education: Engineering Graduate, Auburn University

Armed Services: Major, Air Force - Pilot, Training Command;  
Engineering Research and Development, Wright-  
Patterson

Business: Manufacturing, Real Estate, Farming,

Waterways Resource Development: Charter Member, President,  
Chairman of the Board, Miss. Rivers and  
Harbors Assc.

Charter Member: Tombigbee Valley Authority

Charter Member, Vice Chm.: Tombigbee Water  
Management Authority

Water Resource Advisory Boare

1960 -- Candidate Nixon appointed

1964 -- Candidate Goldwater appointed

1968 -- Candidate Nixon appointed

Political: Member State Executive Committee - ten years

Lowndes County Republican Chairman

Chairman State Candidate Recruitment Comm.

Wife: Member of Executive Comm., Republican National  
Committee.

BIOGRAPHICAL INFORMATION

FOR

ZACK THOMPSON

① PERSONAL DATA

Date and Place of Birth November 1, 1931  
Tellico Plains, Tennessee

Home Address 708 Woodbine Road 205-881-5286  
Huntsville, Alabama 35802

Marital Status Married to the former Betty Mason  
Two daughters - Patricia Ann, age 10  
Brenda Faye - age 7

Religion Protestant, Baptist

Military Service U. S. Army - 2 years - Honorable discharge  
with the rank of Master Sergeant

Health Excellent, no physical limitations

② EDUCATION

Degrees B.S.E.E., The University of Tennessee, 1957  
M.S.,  $\Sigma$  The University of Tennessee, 1957

Continuing Education

The University of Florida, Optimum and Adaptive Control Theory,  
1962.

The University of Alabama, Graduate courses in engineering and  
mathematics, 1962-1966.

The Polytechnic Institute of Brooklyn, Optimum Control, 1963.

Harvard University, Optimization of Dynamic Systems, 1963.

Auburn University, Computer Programming, 1972.

American Institute of Banking, Principal of Banking, 1972.

③ PROFESSIONAL LICENSE

Registered Professional Engineer in the State of Alabama,  
License No. 7197.

④ MEMBERSHIPS IN PROFESSIONAL SOCIETIES

Institute of Electrical and Electronic Engineers  
American Institute of Aeronautics and Astronautics

⑥ EMPLOYMENT

1975 (June) to Present: Assistant Chief Engineer for the Space shuttle Main Engine, Marshall Space Flight Center, NASA, Huntsville, Alabama.

1970 to 1974 (June): Chief Engineer, System Design Section, Astrionics Laboratory, Marshall Space Flight Center, NASA, Huntsville, Alabama.

Responsible for the system architecture of the control, navigation and guidance systems for the Skylab Program. Responsible for the preliminary architecture of control, navigation and guidance systems for the Space Shuttle, the Orbital Space Station, the Space Laboratory, and the Space Tug.

1967 to 1970: Technical Staff, Control Systems Division, Astrionics Laboratory, Marshall Space Flight Center, NASA, Huntsville, Alabama.

Responsible for design, analysis and verification of the attitude control system hardware.

1961 to 1967: Chief, Design and Analysis Unit, Guidance and Control Branch, Astrionics Laboratory, Marshall Space Flight Center, NASA, Huntsville, Alabama.

Responsible for the design and analysis of the thrust vector control systems for all stages of the Saturn Vehicle.

1958 to 1961: Senior Engineer, Martin Company, Orlando, Florida.

Head of the Pershing Missile Autopilot Analysis Team, responsible for stabilization of the Pershing Missile. Other responsibilities included the design and development of hardware for the remote control of the Bullpup Missile.

1957 to 1958: Engineer, Aluminum Company of America, Alcoa, Tennessee.

Responsible for the installation and checkout of automatic control systems for aluminum rolling mills.

⑥ BUSINESS POSITION

Member, Board of Directors, Monroe County Bank,  
Sweetwater, Tennessee

Chairman of the Board of Directors, Fort Loudon Associates,  
Incorporated, Loudon, Tennessee

Member, Doctoral Advisory Committee for H. I. Brock, August 1971 to August 1973, Department of Electrical Engineering, The University of Tennessee, Knoxville, Tennessee

Coauthor of a textbook in automatic control systems (See publication list)

Published more than a dozen of technical papers in various international, national, and regional meetings (See publication list)

Delivered technical talks to academic including university seminars and technical research meetings (See list of invited talks)

#### © CIVIC ACTIVITIES

Member, Huntsville Optimist Club, 1968-present

Member, The University of Tennessee Alumni Association, 1957-present

Member, American Legion, Sweetwater, Tennessee, 1962-64

Member, Industrial Association of Sweetwater, Sweetwater, Tennessee, 1962

Member, Sweetwater Junior Chamber of Commerce, Sweetwater, Tennessee

#### © HONORS AND AWARDS

Tau Beta Pi (National Engineering Honor Society)

Sigma Xi (National Research Honor Society)

Letter of Appreciation for Contribution to New Technology, Marshall Space Flight Center, NASA, 1972

Letter of Appreciation, Source Evaluation Board, Marshall Space Flight Center, NASA, 1971

Sustained Superior Performance Award, from Dr. Werner von Braun, Director of Marshall Space Flight Center, NASA, 1965

Letters of Commendation for special achievements, Marshall Space Flight Center, NASA, 1961-present

Certificate of Appreciation, North Alabama Section of American Institute of Electrical Engineers, 1962

Distinguished Service Award, Huntsville Section of the Institute of Electrical and Electronic Engineers, 1963

## HONORS AND AWARDS (Continuation)

Distinguished Service Award, Huntsville Section of the Institute of Electrical and Electronic Engineers, 1964

Certificate of Appreciation, Kiwanis Club of Sweetwater, Tennessee, 1965

Silver Ram Award, Huntsville Optimist Club, Huntsville, Alabama, 1971

## ① INVITED PROFESSIONAL AND ACADEMIC TALKS

"Thrust Vector Control", Department of Electrical Engineering, The University of Tennessee, Knoxville, Tennessee, 1969

"Apollo 12", Department of Electrical Engineering, Auburn University, 1970

"Space Station", Space Flight Control Meeting, Society of Automotive Engineers, Atlanta, Georgia

"Launch Vehicle", Space Flight Control Meeting, Society of Automotive Engineers, Atlanta, Georgia

"Skylab Program", Pickens County School Teacher's Workshop, Jasper, Georgia, 1970

"History of Rocketry", Gardendale Area Vocational School, Adamsville, Alabama, 1969

"Apollo Program", Fort Campbell School System, Fort Campbell, Kentucky, 1968

"Apollo 11", Business and Professional Women's Club, Sweetwater, Tennessee, 1969

"Skylab", Sweetwater Elementary School, Sweetwater, Tennessee, 1972

"Apollo 11", Brown Elementary School, Sweetwater, Tennessee, 1969

## ① INVENTIONS

Radar Thickness Gauge, for gauging the thickness of metal, 1958

Warning System, a system that gives an audio signal indicating that a manual adjustment is required to the rolling mill when the thickness is approaching out of tolerance, 1958

Positive Hysteresis System, a system to produce positive hysteresis for control applications, 1958

## INVENTIONS (Continuation)

Automatic Checkout, an automatic checkout system for the roll reference gyro for the Bullpup missile, 1958

Hydraulic Shaping Network, an electro-hydro-mechanical device for the control of the Saturn V Space Vehicle, 1965

### © BOOK PUBLISHED

The Essentials of Classical Automatic Control, Johnson Publications, Huntsville, Alabama, 1973 (Coauthor C. H. Weaver)

### © PAPERS PUBLISHED

1. "Empirical Response Equations for the Pershing Attitude Control Hydraulic Servo System," NASA/MSFC Technical Report, MTF-M-G, March, 1961
2. "Apollo Booster Flight Control System," The Society of Automotive Engineers, Committee A-18, December, 1963 (with R. Abott)
3. "A Servo Loop Used as a Traveling Notch Filter in a Thrust Vector Control System," Technical Report, NASA/MSFC, 1966 (with F. W. Davis)
4. "Actuator Participation in a Bending Mode Identification System," The Society of Automotive Engineers, Committee A-18, January, 1966
5. "A Mathematical Model for a Space Vehicle Thrust Vector Control System," A Master's thesis, The University of Tennessee, Knoxville, Tennessee, August, 1967
6. "An Apparent Adaptive Notch Filter for TVC," Proceedings of the 19th Congress of the International Astronautical Federation, Pergamon Press, London, England, 1970, pp. 101-108 (with J. C. Hung)
7. "Digital Controller for High Pressure Rocket Engine," Proceedings of the 10th Annual IEEE Region III Convention, April 10-12, 1972 (with W. J. Cummings and D. M. Hall)
8. "Optimum Switching Boundaries for Space Vehicle Control," Proceedings of the 10th IEEE Region III Convention, April 10-12, 1972 (with H. I. Brock)
9. "New Scheme to Suppress Nonlinear Limit Cycle for Space Vehicle Control," Proceedings of the 5th Annual Southeastern Symposium on System Theory, March 22-23, 1973 (with T. C. Liu)

PAPERS PUBLISHED (Continuation)

10. "Optimal Control of A Variable Spin Speed CMG System for Space Vehicles," Proceedings of IEEE Conference on Decision and Control, 1973 (with T. C. Liu, W. B. Chubb, and S. M. Seltzer)
11. "Identification of Comet Nucleus from Comet Coma," Proceedings of IEEE Southeastcon, April 30 to May 2, 1973 (with H. I. Brock, J. C. Hung, and J. D. Ellsworth)
12. "Autonomous Target Relative Navigation," Proceedings of IEEE Region III Convention, May, 1974 (with H. I. Brock, J. D. Ellsworth, and J. C. Hung)
13. "Unmanned Docking", Proceedings of IEEE Region III Convention, May, 1974, (with M. O. Pace)
14. "Optimum Propellant Usage for Reaction Jet Systems of Space Vehicle," Proceedings of the Joint Automatic Control Conference, June, 1974 (with T. C. Liu)
15. "A Method for Compensating On-Off Relay Control Systems," Proceedings of IEEE Region III Convention, May, 1974 (with T. C. Liu)

⑥ OTHER PROFESSIONAL ACTIVITIES

Member-at-Large, Huntsville Chapter of the Institute of Electrical and Electronic Engineers, 1971-1973

Chairman, Technical Session, The 10th Annual IEEE Region III Convention, Knoxville, Tennessee, 1972

Vice-Chairman, Technical Session, Joint Automatic Control Conference, Atlanta, Georgia, 1972

Program Chairman, Huntsville Chapter of the IEEE Professional Group on Automatic Control, 1967-68

Secretary, Huntsville Section of the Institute of Electrical and Electronic Engineers, 1966-67

Treasurer, Huntsville Section of the Institute of Electrical and Electronic Engineers, 1965-66

Organizer and First Chairman, Huntsville Chapter of the IEEE Professional Group on Automatic Control, 1965

Member-at-Large, Huntsville Section of the Institute of Electrical and Electronic Engineers, 1964-1965

Assistant to the Secretary and the Treasurer, Huntsville Section of the Institute of Electrical and Electronic Engineers, 1962-1963

Chairman, Communication Committee, Huntsville Section of the Institute of Electrical and Electronic Engineers, 1961

**OTHER PROFESSIONAL ACTIVITIES (Continuation)**

**Marshall Space Flight Center's Representative to the Society of Automotive Engineers, Aerospace Committee, 1961-present**

**Membership Chairman, Orlando Section of the American Institute of Electrical Engineers, 1958**

**Chairman, Student Chapter of the American Institute of Electrical Engineers, The University of Tennessee, 1956-1957**

**Secretary, General Alumni Association of the College of Engineering, The University of Tennessee, 1966-1967**

**Member, Association of Collegiate Engineers, The University of Tennessee, 1956-1957**

**Vice Chairman, The University of Tennessee Veteran's Club, 1956**

**January 8, 1975**

## VITA

JOHN H. GIBBONS

### EDUCATION:

B.S. (1949), Mathematics and Chemistry, Randolph-Macon College,  
Ashland, Virginia  
Ph.D. (1954), Physics, Duke University

### POSITIONS:

1954-1965. Oak Ridge National Laboratory. Experimental research on nuclear reactions pertinent to nuclear reactor design and to understanding mechanisms of heavy element synthesis in stars.

1965-1969. Oak Ridge National Laboratory. Group leader, nuclear geophysics. Research on stellar nucleosynthesis and solar system elemental abundances; nuclear techniques to explore composition of solid materials near their surface.

1969-1970. Oak Ridge National Laboratory. Director, Environmental Quality Study Project. Research on environmental problems associated with conversion of energy resources to electricity.

1970-1973. Oak Ridge National Laboratory. Director, ORNL - National Science Foundation Environmental Program. Research applied to problems of energy conservation; environmental impacts of coal mining and conversion; origins, flow, and fate of heavy toxic elements; solid waste management; regional land use and environmental systems analysis.

Jan. -August 1973. University of Tennessee. Director, Environment Center. Research and service in environmental issues, with emphasis on private and public costs of coal mining.

Sept. 1973- Sept. 1974. Department of Interior, Federal Energy Office, Federal Energy Administration: Director, Office of Energy Conservation. Responsibility for directing overall Federal programs in research, development, and demonstration on energy conservation. Directed Federal Energy Management Program which reduced energy consumption by federal agencies in FY 1974 by 24%. Directed action programs with state and local government. Directed national education and public awareness campaign to conserve energy. Developed issue papers and decision papers for administration and legislative action programs in short-term energy curtailment and longer term increase of U.S. energy-efficiency. Developed and presented proposal for international cooperation in energy conservation research and demonstration programs.

Oct. 1974- University of Tennessee: Director, Environment Center. Programs of research and service in a variety of environmental issues, with emphasis on energy supply and demand trade-offs, including environmental implications; coal mining and conversion systems analysis,

emphasizing environmental implications; land use patterns; and other socio-technical issues associated with energy and environment.

#### PROFESSIONAL ORGANIZATIONS AND HONORS:

Fellow, American Association for the Advancement of Science.  
Fellow, American Physical Society.  
Member, Phi Beta Kappa, Sigma Xi, Omicron Delta Kappa, Sigma Pi Sigma, Pi Mu Epsilon, Pi Gamma.  
Member, Ecological Society of America.  
Member, US AEC Advisory Committee on Nuclear Cross Sections (1969-70).  
Member, Governor's Task Force on Energy (1973).  
Government Co-Chairman, National Petroleum Council Committee on Energy Conservation (1973-74).  
Member, U.S. Delegation to Plenary Meeting of the NATO Committee on the Challenges to Modern Society (1974).  
Consultant to Federal Energy Administration, Oak Ridge National Laboratory, Oak Ridge Associated Universities.  
American Men of Science, Who's Who in Atoms, Who's Who in America.

#### PERSONAL:

Born 1929, Harrisonburg, Virginia  
Married: Mary Ann Hobart, 1955  
Children: Virginia (now at Smith College); Diana (now at Yale University); Mary Marshall (High School)  
Member, Church of the Ascension (Episcopal)  
Residence at Sassafrass Hill Farm, Concord, Tn. and Riverbend Farm, Lansing, Tn.  
  
Member of Board of Directors, Oak Ridge Chamber of Commerce .(1958)  
Chairman, Mayor's Committee on Industrial Development . (1960-61)  
Founding Member, Board of Directors and President (1971-73), Oak Ridge Development Corporation.  
Vice President and Member, Board of Directors, Oak Ridge Civic Music Association . (1962-63)  
Member, Board of Trustees, Webb School of Knoxville. (1968-73)  
Member, Board of Directors, Scientists and Engineers for Appalachia.  
Member, Board of Directors, East Tennessee Research Corporation.  
Member, Board of Directors, Environmental Systems Corporation.  
Founding Member, Board of Directors, 2nd Federal Savings and Loan, Oak Ridge, Tn.  
Member, Tennessee Citizens for Wilderness Planning, Sierra Club, The Wilderness Society.

## SELECTED PUBLICATIONS:

Neutron Resonances in the kev Region, Phys. Rev. 102, 1574 (1956).

Neutron Absorption Cross Sections of U<sup>235</sup> and Pu<sup>239</sup> in the 5 to 50 Range, Phys. Rev. 102, 97 (1956).

Study of the T(p,n) He<sup>3</sup> and Li<sup>7</sup> (p,n) Be<sup>7</sup> Reactions, Phys. Rev. 109, 105 (1958).

Average Radiative Capture Cross Sections for 7-170 kev Neutrons, Phys. Rev. 122, 182 (1961).

The Li<sup>7</sup> (p,n) Be<sup>7</sup> Reaction, Fast Neutron Physics, Part I (ed. by Marion and Fowler), Interscience Publishers, New York (1960).

Neutron Capture in Tin Isotopes at Stellar Temperatures, Nature, 194, 1272 (1962).

Neutron Capture in the Samarium Isotopes and the Formation of the Solar System, Nature 197, 369 (1963).

Neutron Capture Data at Stellar Temperatures, Rev. Mod. Phys. 37, 166 (1965).

Gamma Rays from kev Resonance Neutron Capture in Some (2s-1d) Shell Nuclei, Phys. Rev. 158, 1049 (1967).

Neutron Capture and Stellar Synthesis of Heavy Elements. Science 156, 1039 (1967).

Quantitative Tests of S-Process Stellar Nucleosynthesis for Solar System Material, Astrophysical Journal 149, 577 (1967).

Proton Reaction Determination of Lithium and Fluorine in Molten Salt Reactor Graphite, Nuclear Applications 5, 249 (1968).

Nucleosynthesis and Neutron Capture Cross Sections, Advances in Nuclear Physics, Vol. 4. (Plenum Press, 1971).

<sup>12</sup>C (α,γ) <sup>16</sup>O Capture Cross Section Below 3.2 Mev, Phys. Rev. C 2, 68 (1970).

Physics Looks at Waste Management, Physics Today (February 1972).

The Paradox of Progress, a Chapter in "Science Looks at Itself", (ed. by National Science Teachers Association), Charles Scribner's Sons, New York.

Basis for a Federal Energy Conservation Program. Federal Energy Office Memorandum dated March 1974.

emphasizing environmental implications; land use patterns; and other socio-technical issues associated with energy and environment.

### PROFESSIONAL ORGANIZATIONS AND HONORS:

Fellow, American Association for the Advancement of Science.  
Fellow, American Physical Society.  
Member, Phi Beta Kappa, Sigma Xi, Omicron Delta Kappa, Sigma Pi Sigma, Pi Mu Epsilon, Pi Gamma.  
Member, Ecological Society of America.  
Member, US AEC Advisory Committee on Nuclear Cross Sections (1969-70).  
Member, Governor's Task Force on Energy (1973).  
Government Co-Chairman, National Petroleum Council Committee on Energy Conservation (1973-74).  
Member, U.S. Delegation to Plenary Meeting of the NATO Committee on the Challenges to Modern Society (1974).  
Consultant to Federal Energy Administration, Oak Ridge National Laboratory, Oak Ridge Associated Universities.  
American Men of Science, Who's Who in Atoms, Who's Who in America.

### PERSONAL:

Born 1929, Harrisonburg, Virginia  
Married: Mary Ann Hobart, 1955  
Children: Virginia (now at Smith College); Diana (now at Yale University);  
Mary Marshall (High School)  
Member, Church of the Ascension (Episcopal)  
Residence at Sassafras Hill Farm, Concord, Tn. and Riverbend Farm,  
Lancing, Tn.

Member of Board of Directors, Oak Ridge Chamber of Commerce (1958)  
Chairman, Mayor's Committee on Industrial Development (1960-61)  
Founding Member, Board of Directors and President (1971-73), Oak Ridge Development Corporation.  
Vice President and Member, Board of Directors, Oak Ridge Civic Music Association (1962-63)  
Member, Board of Trustees, Webb School of Knoxville (1968-73)  
Member, Board of Directors, Scientists and Engineers for Appalachia.  
Member, Board of Directors, East Tennessee Research Corporation.  
Member, Board of Directors, Environmental Systems Corporation.  
Founding Member, Board of Directors, 2nd Federal Savings and Loan, Oak Ridge, Tn.  
Member, Tennessee Citizens for Wilderness Planning, Sierra Club, The Wilderness Society.

BIOGRAPHICAL SKETCH

THOMAS L. LONGSHORE



Age: 43

Education: Grammar School and High School - Public Schools, Birmingham, Alabama; BS in Commerce and Business Administration and LLB - University of Alabama.

Children: 3  
Tom, Jr. (10)  
John Allen (9)  
Paula (7)

Marital Status: Married to Betty Allen Hurst Longshore - formerly of Opp, Alabama. Undergraduate and Master's Degree - University of Alabama. Heads the Second Grade Sunday School Department - Mountain Brook Baptist Church, Birmingham. Has worked as teacher, in banking, and as Home Economist, Alabama Power Company

**Professional and Business Background:**

Line Officer - U. S. Navy - Communications  
Attorney - Firm of Longshore & Longshore, Birmingham  
Alabama Power Company - 1961 to present:

Currently in Executive Department as Department Head of Special Projects.

1961 - Staff Assistant - Power Supply Department

1962 - Stock Transfer Agent

- Assistant Secretary

- Assistant to the Executive Vice President

- Assistant to the President & Chief Executive Officer

- Organized new department - Special Projects

Work in the above areas included responsibility for:

I. Company relations with

(1) Public

(2) Administrative Agencies, State & Federal -

Examples: (a) Alabama Public Service Commission

(b) Federal Power Commission

(c) Atomic Energy Commission

(d) Securities & Exchange Commission

(e) Many others

(3) Stockholders

(4) Municipalities

(5) Co-ops

(6) Employees

(7) Political structure

(8) Public understanding of nuclear power specifically and power supply requirements generally

- II. Land Department
  - (1) Prepared all matters requiring Board of Directors action
  - (2) Executive negotiations not soluble at Land Department level
  - (3) Created new and public recreation program
  - (4) Served as executive contact with State Department of Conservation
  - (5) Set up report system for all Company facilities on hydro projects
  - (6) Coordinated materials for renewal of license on hydro projects.
  
- III. Claims Department -
  - Studied and recommended cases for executive approval.
  
- IV. Power Supply Department -
  - (1) Labor matters
  - (2) Employee services
  - (3) Contracts
  - (4) Training
  - (5) Staff responsible for all non-technical matters.
  
- V. Secretarial Department
  - (1) Prepared most of matters requiring Board of Directors approval
  - (2) Prepared minutes
  - (3) Contacts with Board members on vital Company matters
  - (4) Insured that all new stock issues had necessary internal and administrative agencies approval
  - (5) Critical document filings and security.
  
- VI. Accounting, Treasury & Finance:
  - (1) Budget reports to President
  - (2) Received and approved Treasurer's report on short-term financing and investments
  - (3) Coordinated materials for rate cases (retail & wholesale)
  - (4) Recommended budget for memberships and civic contributions
  - (5) Recommended procedural changes to insure compliance with legal requirements.
  
- VII. Engineering & Construction
  - (1) Coordinated the securing of and compliance with all permits and licenses
  - (2) Advised President on budgets of various projects
  
- VIII. Customer Services
  - (1) Approved of and insured compliance with Company policy
  - (2) Deciding unusual cases.

- (3) Followed to a conclusion all customer complaints brought to the attention of the Executive Department.

IX. Six Geographic Divisions

- (1) Coordinated all executive activities
- (2) Assisted Divisions with General Office staff support as desired
- (3) Advise and coordinate all local, state, and federal legislative matters for the 6 divisions.

X. Executive Department

- (1) Direct confidential studies in new and existing areas determining policy, action required, direct internal implementation, and insuring appropriate follow-through
- (2) Assisted any of 5 principal officers on special assignments
- (3) Political communications
- (4) Continuing Public Affairs assignments.
- (5) Executive representative at local, state, and national meetings.
- (6) Company representative for Atomic Industrial Forum and other electric utility organizations.

Political Background:

Republican Party since before the turn of the century  
Judge A. P. Longshore, Grandfather, supported the Republican Party beginning in 1890; he was elected Probate Judge of Shelby County, Alabama for 20 years.

Judge W. L. Longshore, Father, served as Circuit Judge of Shelby, Coosa, and Tallapoosa counties on Republican ticket; also Vice Chairman of Alabama Republican Party; Jefferson County Party Chairman; State Attorney for the Alabama Republican Party; U. S. Attorney, Northern District of Alabama, during Eisenhower administration; and various other capacities until his death in 1971. Judge W. L. Longshore was also a delegate, or alternate delegate. to every Republican National Convention from 1936 to 1968 (except one). Devoted to Republican Party from age 20 until death at age 79.

W. L. Longshore, Jr., Brother - State Chairman of Young Republicans of Alabama; Vice President of National Young Republican Federation; Candidate for Governor and Congress; elected as delegate to 1960 Republican National Convention and several National Young Republican Federation Conventions.

Thomas L. Longshore - While not a candidate or office holder, has spent time, effort, and money in support of father and brother in Republican causes; Served as Secretary-Treasurer of Jefferson County Young Republican Executive Committee; Precinct Organizational Work - late 50's and early 60's. Contributed in various ways to the Republican Party from High School days to present.

Assisted in the following campaigns monetarily and other ways:

All National Candidates for President since 1954  
All Congressional Races  
Judge Perry Hooper - United States Senate  
Mayor Seibels - Mayor of Birmingham  
George McNally - Mayor of Mobile  
Bert Nettles - State Representative from Mobile  
John Creel - State Representative from Jefferson County  
Frank "Tuckey" Thomas - Board of Education  
Jim Martin - United States Senate and Governor of Alabama  
Winton "Red" Blount - United States Senate  
Senator Robert A. Taft of Ohio - United States Senate  
Governor Bricker - Governor of Ohio  
Various Fund-Raising Campaigns

Personal and Family Credentials with the Republican Party are firmly established over a period of time spanning nine decades.

**Character:** Church affiliation - Mountain Brook Baptist Church; has served as Associate Deacon; Sunday School Teacher; Secretary of Sunday School Class, etc.

**Community Involvements:**

United Appeal; Multiple Schlerosis Society Board of Directors; Fund Chairman - March of Dimes; President and Board Member - Mountain Brook Exchange Club; Executive Committee Jefferson County University of Alabama Alumni Association; University of Alabama Executive Society.

**Professional & Business Organizations:**

Birmingham Bar Association; American Bar Association; Edison Electric Institute Section of Area Development; Atomic Industrial Forum Member; Former Board Member Council of Southern Mountains.

**Social Interests:**

Football; Golf; Tennis; Member Birmingham Country Club; President, Sigma Nu Alumni Association.

RESUME OF  
HORACE MAYNARD LAYMAN  
OF  
DECATUR, ALABAMA  
RECOMMENDED BY SENATOR JOHN J. SPARKMAN  
FOR APPOINTMENT TO  
BOARD OF DIRECTORS OF  
TENNESSEE VALLEY AUTHORITY

**JOB:** L&N YMCA, Decatur, Ala. - Boys Secretary in charge of a city program for boys and at the same time director of health and physical education for the public school system of Decatur.

THE DECATUR DAILY, Decatur, Ala. - Manager circulation, farm editor and assistant to the publisher from '30 to '75. In our carrier program we developed a governor of the state of Alabama; another is a member of the Alabama Supreme Court; another was one of the top delegates to the American Medical Association; another is past president of the Alabama Certified Public Accountants Association. Many of these boys became business leaders, civic leaders and church leaders.

In years with THE DAILY worked with community leaders in developing one of the better farm market programs of the southeast. Through the years worked with the advertising, editorial, and mechanical departments of the newspaper.

Charter member of the Alabama Cotton Hardship Committee; advisor for the Legislative Cotton Study Committee working in Montgomery and Washington for state and national legislation for cotton farmers of the southeast.

Member of the Alabama Center Board, a five man group appointed by the governor to plan and locate farm markets throughout the state and build a state coliseum.

President of Alabama Educational Television Commission - developed first statewide educational television network in the United States.

Member of National Feed Grain Advisory Committee 8 years.

(Resume of Horace Maynard Layman continued):

Active in Boy Scouting - Scout Master and Committeeman; Salvation Army - president of Morgan County Chapter; Rotary; Chamber of Commerce - as chairman and committee member worked on agricultural and industrial and civic projects.

Member of the Governors Commission on Coal, planning for use and development of Alabama coal and all 18 coal producing states of the nation.

Emergency Committee For the Valley - 7-state group working on energy solutions before Attorney General John Mitchell, the Federal Trade Commission, the Federal Power Commission, Mrs. Virginia Knauer, President's Advisor on Consumer Affairs, and the President's Energy Commission.

Consultant to Tennessee River Valley Association, an organization seeking the development of the human and natural resources of the 7-state TVA area.

Member St. John's Episcopal Church, vestryman, church school teacher and superintendent; former President of the Alabama Churchmen, Episcopal.

Born: Huntsville, Ala. 6-12-07

Parents: Mary Payne Harris and Horace Maynard Layman

Marital Status: Married; one daughter; two granddaughters.

Education: Chattanooga, Tenn. and Madison County, Ala. Graduate Madison County High School, Gurley, Ala. '24; Graduate BA, Maryville College, Maryville, Tenn. '28. While at Maryville was secretary Student YMCA; active in athletics, dramatics, literary groups and was class vice president.

THE WHITE HOUSE

WASHINGTON

March 28, 1975

MEMORANDUM FOR: BILL WALKER  
FROM: JERRY JONES  
SUBJECT: Tennessee Valley Authority

The President has reviewed your memo of March 24th on the above subject and has made the following notation:

-- Talked to Jack Edwards. Said I would do my best.

cc: Don Rumsfeld

THE WHITE HOUSE  
WASHINGTON

3/24/75-

Mr. President -

Congr. Jack Edwards wants  
to see you about this. I  
suggested a phone call, and  
he was agreeable...

I suggest you call him today.  
He does not know about  
your decision on Friday -

3/24/75

Talked to Jack Edwards.  
And I would do my best.