#### **AMENDED 2002 INFORMATION STATEMENT**

## TENNESSEE VALLEY AUTHORITY

A Wholly Owned Corporate Agency and Instrumentality of the United States of America

The Tennessee Valley Authority ("TVA" or the "Corporation") is issuing this Amended 2002 Information Statement (this "Statement") to disclose certain pro forma and related information which was not included in the original 2002 Information Statement dated January 13, 2003 (the "Original Information Statement"). See "Amendments to 2002 Information Statement" on page i for a description of the "New Information." The information in this Statement is dated as of January 13, 2003, except for the New Information, which is dated as of July 28, 2003.

TVA presents this Statement for the information of stakeholders and potential purchasers of (1) its Power Bonds ("Power Bonds"), (2) its Discount Notes ("Discount Notes"), and (3) any other evidences of indebtedness ("Other Indebtedness") it may issue pursuant to the Tennessee Valley Authority Act of 1933, as amended, 16 U.S.C. §§831-831ee(2000) (the "Act" or the "TVA Act"). TVA issues Power Bonds pursuant to the Act and the Basic Tennessee Valley Authority Power Bond Resolution adopted by the Board of Directors of TVA (the "Board" or the "TVA Board of Directors" or "TVA's Board of Directors") on October 6, 1960, as amended on September 28, 1976, October 17, 1989, and March 25, 1992 (the "Basic Resolution"). TVA issues Discount Notes and Other Indebtedness pursuant to the Act and their authorizing resolutions. Power Bonds, Discount Notes and Other Indebtedness are collectively referred to in this Statement as "Evidences of Indebtedness."

TVA may offer Power Bonds and Other Indebtedness from time to time. TVA may offer Discount Notes for sale on a continuous basis by direct placement or through selected investment dealers, dealer banks, underwriters or underwriting syndicates. For each offering of Power Bonds, except for Power Bonds offered under a program on a continuous basis, TVA will prepare an offering circular describing the specific terms and conditions of the Power Bonds offered. For Power Bonds offered under a program on a continuous basis, TVA will prepare a single offering circular that describes the general terms and conditions common to all securities issued under the program. TVA will also prepare a single offering circular describing the general terms and conditions common to all Discount Notes offerings. For offerings of Other Indebtedness, TVA will either prepare an offering circular describing the specific terms and conditions of the particular offering or a more general offering circular, as TVA deems appropriate. For any offerings made through a program under which Other Indebtedness, Discount Notes or Power Bonds are offered on a continuous basis, the offering circular will describe how, if at all, the offering circular will be supplemented in order to reflect, among other things, the specific terms and conditions of the securities being offered. You should read this Statement, as it may be supplemented or amended, together with the appropriate offering circular, as it may be supplemented or amended, for each offering.

For each offering of an Evidence of Indebtedness, you should rely only on the information contained in (1) this Statement, (2) the relevant offering circular, and (3) any supplements or amendments to these documents approved by TVA. TVA has not authorized anyone to provide you with any information that is different from that found in this Statement and each relevant offering circular and any supplements or amendments to such documents. This Statement does not constitute an offer to sell or a solicitation of an offer to buy any Evidences of Indebtedness in any jurisdiction to any person to whom it is unlawful to make an offer or solicitation.

TVA may supplement, amend or replace this Statement from time to time, generally no more often than annually, to reflect its annual financial results or otherwise as TVA deems appropriate. However, TVA assumes no further duty to update this Statement. You should rely on the most recent supplements or amendments to or replacement of this Statement over different information in this Statement.

You may obtain additional copies of this Statement by writing to Tennessee Valley Authority, 400 West Summit Hill Drive, Knoxville, Tennessee 37902-1401, Attention: Investor Relations or by calling 1-888-882-4975.

Evidences of Indebtedness are not obligations of the United States of America, and the United States of America does not guarantee the payment of the principal of or interest on any Evidences of Indebtedness. TVA is not required to register Evidences of Indebtedness under the Securities Act of 1933 or to make periodic reports to the Securities and Exchange Commission under the Securities Exchange Act of 1934.

This Statement is dated as of January 13, 2003, except for the New Information, which is dated as of July 28, 2003.

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## AMENDMENTS TO 2002 INFORMATION STATEMENT

This Statement amends the Original Information Statement to add the following information (the "New Information"), which was not otherwise required to be included in TVA's annual financial statements as of the date of the Original Information Statement:

- i) the information on pages 26 and 54 relating to the effect of adoption of Statement of Financial Accounting Standards No. 143, *Accounting for Obligations Associated with Retirement of Long-Lived Assets*,
  - ii) the pro forma net income (loss) information on page 46,
  - iii) note 13 to the financial statements on pages 70 and 71,
- iv) the information on page 72 in the Report of Independent Accountants relating to the information in items i, ii, and iii above and the reference on page 79 to the date of the discussion of note 13 in such report, and
- v) the certifications on pages 82 and 83 relating to the information referred to in items i, ii, and iii above.

In addition, the cross-reference in note 1 on page 51 was changed from note 12 to note 13, and the information relating to the accounting change in unbilled revenue was moved from note 12 to note 13. The information contained in this Statement is dated as of January 13, 2003, except for the New Information, which is dated as of July 28, 2003.

<sup>\*</sup> The term "Information Statement" as used in the Report of Management on page 73 and in the certifications on pages 80 and 81 refers to the Original Information Statement.

#### PART I

#### **BUSINESS**

#### General

Forward Looking Information

This Statement contains forward-looking statements relating to future events and future performance. Any statements regarding expectations, beliefs, plans, projections, estimates, objectives, intentions, assumptions or otherwise relating to future events or performance may be forward-looking.

In certain cases, forward-looking statements can be identified by the use of the words such as "may," "will," "should," "expect," "anticipate," "believe," "intend," "project," "plan," "predict," "assume," "estimate," "objective," "possible," "potential," or other similar expressions.

Some examples of forward-looking statements include statements regarding TVA's projections of future power and energy requirements; future costs related to environmental compliance; impacts of potential legislation on TVA and the likelihood of enactment of such legislation; strategic objectives; anticipated availability of nuclear waste storage facilities; projections of nuclear decommissioning costs; and impacts of pending litigation and various administrative orders which have been or may be issued.

Although TVA believes that the assumptions underlying the forward-looking statements are reasonable, TVA does not guarantee the accuracy of these statements. Numerous factors could cause actual results to differ materially from those in the forward-looking statements. These factors include, among other things, new laws, regulations, and administrative orders, especially those related to the restructuring of the electric power industry and various environmental matters; increased competition among electric utilities; legal and administrative proceedings affecting TVA; the financial and economic environment; performance of TVA's generation and transmission assets; fuel prices; demand for electricity; changes in technology; changes in the price of power; loss of any significant customers or suppliers; creditworthiness of counterparties; weather conditions and other natural phenomena; changes in accounting standards; and unforeseeable events. New factors emerge from time to time, and it is not possible for management to predict all such factors or to assess the extent to which any factor or combination of factors may impact TVA's business or cause results to differ materially from those contained in any forward-looking statement.

TVA undertakes no obligation to update any forward-looking statement to reflect developments that occur after the statement is made.

Fiscal Year

Unless otherwise indicated, years (2002, 2001, etc.) in this Statement refer to TVA's fiscal years ended September 30.

Notes

References to "notes" are to the Notes to Financial Statements contained in PART II.

# The Corporation

TVA is a corporate agency and instrumentality of the United States government created in 1933 by the Act and charged with providing navigation, flood control and agricultural and industrial development, while providing electric power to the Tennessee Valley region. TVA has developed and operates one of the largest electric power systems in the United States, having produced nearly 152 billion kilowatt-hours ("kWh") of electricity in 2002. TVA is wholly owned by the United States government and is administered by a board of three persons appointed by the President and confirmed by the United States Senate. Appointments are for nine-year staggered terms, with one term expiring each three-year interval.

Historically, the programs at TVA have consisted of power and nonpower programs. Revenues and expenses of the power program are segregated from other revenues and expenses. Substantially all of TVA's revenues and assets are attributable to its power program. For a discussion of the funding of TVA's nonpower programs, see "Management's Discussion and Analysis of Financial Condition and Results of Operations" — "Stewardship Responsibilities."

The Act requires the power program to be self-supporting from power system revenues and capital TVA raises through its power program financings. The Act authorizes TVA to issue Evidences of Indebtedness in an amount not exceeding \$30 billion outstanding at any one time, the proceeds of which may be used only for the power program. See "The Basic Resolution; Power Bonds, Discount Notes and Other Indebtedness."

Under certain circumstances, the Act permits TVA to borrow up to \$150 million for a period of one year or less from the United States Treasury (the "Treasury"). The Act requires TVA to obtain the approval of the Secretary of the Treasury of the issue date and maximum interest rate for any issuance of an Evidence of Indebtedness with a term of one year or longer. The Office of Management and Budget ("OMB") includes TVA's finances as part of the budget of the United States.

The Act requires TVA to annually file a financial statement and complete report as to its business with the President and Congress. The Government Corporation Control Act authorizes the Comptroller General of the United States to periodically audit the transactions of TVA.

## The Area Supplied by the Tennessee Valley Authority

TVA supplies power in most of Tennessee, northern Alabama, northeastern Mississippi and southwestern Kentucky, and in small portions of Georgia, North Carolina and Virginia. TVA serves a population of about eight million people. Subject to certain minor exceptions, TVA may not without specific authorization by act of Congress enter into contracts which would have the effect of making it or the distributors of its power a source of power supply outside the area for which TVA or the distributors were the primary source of power supply on July 1, 1957.

#### **Rates and Customers**

TVA is primarily a wholesaler of power. Its customers comprise three major groups: (1) distributors, consisting of municipalities and cooperatives; (2) industries that have large or unusual loads; and (3) federal agencies. Additionally, TVA has entered into exchange power arrangements with most of the electric systems that surround it.

The Act gives the Board sole responsibility for establishing the rates that TVA charges for power and authorizes the Board to include in power contracts terms and conditions that it judges necessary or desirable for carrying out the purposes of the Act. The Act requires TVA to charge rates for power which, among other things, will produce gross revenues sufficient to provide funds for (1) operation, maintenance and administration of its power system; (2) payments to states and counties in lieu of taxes; (3) debt service on outstanding Evidences of Indebtedness; and (4) annual payments to the Treasury in repayment of and as a return on the government's appropriation investment in TVA power facilities (the "Appropriation Investment"). See "Certain Provisions of the Tennessee Valley Authority Act and Related Legislation" and "The Basic Resolution; Power Bonds, Discount Notes and Other Indebtedness" — "Rate Covenant." Rates set by the Board are not subject to review or approval by any state or federal regulatory body. In a future restructured electric power industry (discussed in "Management's Discussion and Analysis of Financial Condition and Results of Operations" — "TVA and Competition"), it is possible, however, that the ability of the Board to set TVA's rates as specified in the TVA Act could be adversely affected by legislative changes or by competitive pressures.

A summary of power program operating revenues by customer type for each of the last five years ended September 30 is shown in "Selected Financial Data."

## Municipal and Cooperative Distributors

Sales to municipal and cooperative distributors accounted for approximately 86 percent of TVA's total revenues in 2002. TVA has long-term wholesale power contracts with 158 municipal and cooperative distributors. All of these contracts require distributors to purchase substantially all of their electric power and energy requirements from TVA.

All distributors purchase power under one of three basic arrangements. Fifty-five distributors purchase power under contracts that require 10 years' notice to terminate and further provide that on each anniversary beginning on the tenth anniversary, one additional year is automatically added to the term. Four distributors have contracts that require 15 years' notice to terminate the contract. On each anniversary of these contracts, beginning on the fifth anniversary, one additional year is automatically added to the term. TVA has also offered distributors the option of moving from 10- or 15-year termination notice periods to a 5-year termination notice period. Ninety-nine distributors, including two of the largest, have entered into contractual arrangements of this type. Sales to these two distributors generated approximately 13 percent of TVA's total operating revenues in 2002. TVA has agreed that all of these term arrangements are deemed to provide for adequate recovery by TVA of any investment in generation and transmission facilities for service to the distributor.

TVA has received notice from one distributor which terminates its power contract with TVA in October 2007. A second distributor has also given a notice which seeks to so terminate its power contract in October 2007 conditioned upon the availability of transmission service from TVA. During 2002, sales to these distributors generated approximately one percent of TVA's total operating revenues. Once a power contract is terminated, the terminating distributor would have neither the obligation nor the right to take power or obtain transmission from TVA, absent the negotiation of new arrangements.

TVA's wholesale power contracts contain standard provisions specifying the wholesale rates, resale rates and terms and conditions under which power is to be distributed. Under these contracts, TVA, on a quarterly basis, may determine and make adjustments in the wholesale rate schedules necessary to enable TVA to meet all requirements of the Act and the financial covenants and provisions of its bond resolutions. The contracts provide for agreement between the parties on general or major changes in the wholesale schedules. If, however, agreement is not reached, the contracts permit TVA to make changes in these schedules to carry out the objectives of the Act, to meet financial requirements and covenants and to comply with the provisions of its bond resolutions.

Most of the power contracts between TVA and the distributors of TVA power specify the resale rates that distributors charge the ultimate power consumers. These rates are revised from time to time to reflect changes in costs, including changes in the wholesale cost of power. They are designed to promote the Act's objective of providing an adequate supply of power at the lowest feasible rates.

A number of TVA distributors, including some with the largest loads, have expressed interest in further revising their wholesale power contracts to allow them more options respecting contract term and other matters, such as purchasing a portion of their power requirements from suppliers other than TVA. TVA agreed to work with distributors to develop additional contract flexibility and outlined a framework for additional contract options in June 2001. Distributors and the Tennessee Valley Public Power Association ("TVPPA"), an association which includes almost all distributors of TVA power, agreed to work with TVA to draft the new contract arrangements. Two teams are working to develop proposals, one on long-term contract options and the other on partial requirement options. TVA and the distributors have reached substantial agreement on long-term contract options. Under these arrangements, TVA would offer distributors a choice of 10-, 15-, and 20-year rolling-term contract options in exchange for certain benefits. The partial requirements option would permit distributors to buy up to 10 percent of their power from other suppliers or to generate a comparable amount themselves, following a two-year notice to TVA. Progress on this option has slowed due to uncertainty regarding transmission issues.

TVA has also entered into agreements with two distributors that significantly reduce TVA's involvement with their resale rates and which provide for TVA's termination notice period to generally be 10 years even if the distributor has chosen the 5-year option described above.

TVA is offering a discounted energy unit ("DEU") program to its distributors through which a distributor prepays a portion of the price of a block of kWhs and receives a credit on its power bill over a period of years (10, 15 or 20) for each kWh in the prepaid block. TVA has received expressions of interest from over 40 distributors interested in participating in this program. The amount of their indicated participation totals more than \$50 million. TVA expects to enter into power contract supplements to implement the DEU program beginning in January 2003. Upon termination of the power contract, the DEU agreement will terminate unless TVA and the distributor agree to other supply arrangements. The number of distributors that ultimately decides to participate in the DEU program and the dollar amount of their participation may be more or less than that described above.

For a discussion of the effects of competition in the restructured electric power market, see "Management's Discussion and Analysis of Financial Condition and Results of Operations" — "TVA and Competition."

#### Other Sources of Revenues

Revenues from industries and federal agencies directly served and from exchange power arrangements with other power systems and other revenue accounted for approximately 14 percent of TVA's total power revenues in 2002. Contracts with industries directly served by TVA are normally for 10-year terms. These contracts are subject to termination by TVA or the customer upon a minimum notice period that varies according to the customer's contract demand and the period of time service has been provided to the location where it is to be terminated. TVA establishes the rates it charges to industrial customers it directly serves. These rates normally are the same as those charged by the distributors of TVA power to large industries (those with demand greater than 25,000 kilowatts).

TVA generally sells power to federal agencies under the same contract terms and rates as directly-served industries. Contracts with federal agencies are normally for 10-year terms and are subject to termination by TVA or the federal agency upon a minimum notice period that varies according to the customer's contract demand and period of time service has been provided to the location where it is to be terminated.

TVA also has exchange power arrangements with 11 neighboring power systems. As part of the TVA self-financing legislation enacted by Congress in 1959, TVA was restricted to selling power outside of the TVA service area to what was then 14 power generating companies. Due to a number of mergers and acquisitions over the years, there are now 11 of these grandfathered organizations remaining. The agreements are openended but do have termination provisions.

#### **Power and Energy Requirements**

TVA prepares annual forecasts of future power and energy requirements as part of its planning and budgeting process. TVA's forecast procedure involves producing a range of load forecasts for the explicit purpose of bounding the range of uncertainty associated with load growth. TVA produces the load forecasts probabilistically. TVA believes that there is a 90 percent probability that the actual load will be less than the high load forecast, a 50 percent probability that the actual load will be less than medium load forecast and a 10 percent probability that actual load will be less than the low load forecast. TVA's current load forecast through 2004 reflects an average annual peak growth rate of 3.1 percent, 2.2 percent and 0.6 percent for the high, medium and low load forecasts, respectively. TVA's current forecast of total system energy requirements through 2004 reflect an average annual energy growth rate of 3.7 percent, 2.8 percent and 1.1 percent for the high, medium and low load forecasts, respectively. Numerous factors, such as weather conditions and the health of the regional economy, could cause actual results to differ materially from TVA's forecasts.

#### **Fuel**

Management believes the sources and availability of fuel materials essential to its business should be adequate for the foreseeable future.

Coal consumption during 2002 was 42.4 million tons. Coal is purchased under contracts ranging from a single delivery to deliveries over several years. TVA coal inventory levels vary from plant to plant based upon a simulated inventory model. As of September 30, 2002, TVA had 19.7 days' system-wide coal supply in inventory at full burn. Coal inventory at September 30, 2002 and 2001 was \$173 million and \$170 million, respectively.

TVA has in place term coal contracts that for 2002 supplied 81 percent of TVA's total coal requirements. The remaining 19 percent was purchased in the spot coal market under contracts with terms of one year or less. Thirty-four percent of TVA's coal supply comes from western states; the remainder comes from Illinois, Kentucky, Pennsylvania, Tennessee, Virginia and West Virginia. Thirty-four percent of TVA's coal supply is delivered by train, 28 percent is delivered by barge, and 25 percent is delivered by barge in combination with trains. The remainder is delivered by truck.

During 2002, TVA purchased approximately 87 percent of its natural gas requirements in the spot market and 13 percent pursuant to option contracts with maturities of one year or less. TVA purchases substantially all of its natural gas to operate combustion turbine peaking units. These combustion turbine units, which can also operate on distillate fuel, produced less than 1 percent of the electricity that TVA generated during 2002.

TVA owns all nuclear fuel held for its operating and deferred nuclear units. The net book value of this fuel was \$319 million as of September 30, 2002. TVA will fill future uranium requirements by a combination of term and spot purchase contracts while maintaining diversity of supply source. TVA currently has approximately 90 percent of its forward five-year (2003-2007) uranium requirements either in inventory or under contract.

Under an interagency agreement entered into in 2001, DOE is to transfer to TVA at no cost a total of approximately 33 metric tons of surplus highly enriched uranium ("HEU"). However, TVA is responsible for the subsequent costs required to down blend and convert the HEU material to a form of material usable in the nuclear fuel assembly manufacturing process. In April 2001, TVA entered into a contract with Framatome ANP for down-blending and conversion services for the HEU material through Framatome ANP's subcontractor Nuclear Fuel Services and for fabricating the blended-down material into fuel assemblies to be used in TVA's nuclear plants. The estimated costs TVA will incur under this contract are not expected to exceed \$525 million. TVA will defer the HEU down-blending and fuel assembly fabrication costs until such time as sufficient fuel is available for reactor unit reload. Deferred costs will be allocated to the reload assemblies and amortized as fuel expense over the fuel burn period in accordance with TVA's current nuclear fuel accounting policy.

## **PROPERTIES**

TVA's power system is one of the largest in the United States in capacity and in energy production. Its size permitted the construction of large facilities which resulted in lower unit costs. Most of TVA's dams were completed years ago when construction costs were far below present-day levels. In accordance with the Act, all real estate acquired by TVA is acquired in the name of the United States. See "Certain Provisions of the Tennessee Valley Authority Act and Related Legislation."

TVA's power generating facilities at September 30, 2002, included 29 hydroelectric plants, 11 coal-fired plants, 3 nuclear plants, 1 pumped storage hydroelectric plant, 6 combustion turbine plants, 1 windpower site, 2 methane gas generation sites and 14 solar photovoltaic sites. Energy is delivered to TVA customers over a transmission system of approximately 17,000 miles of lines, including 2,400 miles of extra-high-voltage (500,000 volt) transmission lines. The system interconnects with neighboring power systems at numerous points. TVA has various types of interchange arrangements with these systems. The extent and types of interchange transactions depend upon the characteristics of the systems' loads, the management policies of the

systems and other factors. Interchange arrangements are an essential part of TVA's efforts to minimize investment in electrical facilities, increase the reliability of service, effect operating economies and minimize the cost of electric energy.

While not generally subject to Federal Energy Regulatory Commission ("FERC") jurisdiction, TVA is voluntarily seeking ways to meet FERC's objectives to improve regional transmission control in a manner consistent with TVA's responsibilities under the TVA Act. TVA is moving forward on two initiatives. First, TVA is working to create a coordination agreement with other public power providers to develop a regional partnership that will allow its members to continue their public service mission and integrate with surrounding regional transmission organizations ("RTOs") for a seamless market. Second, TVA is working with neighboring utilities and RTOs — including Southern Company, Entergy Corporation and the Midwest Independent System Operator — to create a contractual arrangement that would encourage a seamless wholesale power market for much of the eastern interconnection.

# **Generating Resources**

During 2002, 64 percent of the power generated by the TVA coordinated system was by coal-fired plants and combustion turbines, 30 percent by nuclear and 6 percent by hydro.

The following table summarizes the winter net dependable capacity ("NDC") in megawatts ("MW") on TVA's coordinated system as of September 30, 2002:

Winter Not

	Generating Units	Dependable Capacity (MW) <sup>(1)</sup>
TVA-Owned/Leased Facilities		
Hydro	109	3,305
Pumped Storage	4	1,624
Coal-fired	59	15,023
Nuclear	5	5,751
Combustion Turbine	72	4,643 <sup>(2)</sup>
		30,346
Other Facilities		
TAPOCO, Inc.		$326^{(3)}$
U.S. Army Corp. of Engineers		$405^{(4)}$
Choctaw Generation, L.P.		440 <sup>(5)</sup>
Total Capacity		31,517

- (1) NDC as stated is the net power output which can be obtained for a period adequate to satisfy the daily load patterns under expected conditions of operation with equipment in an average state of maintenance excluding any fluctuations in capacity that may occur due to planned outages, unplanned outages and deratings. For planning purposes, TVA currently estimates summer dependable total hydro capacity, including generation supplied under agreements with TAPOCO, Inc., and the Southeastern Power Administration, of approximately 5,917 MW; coal-fired capacity, including Choctaw Generation plant capacity, of approximately 15,116 MW; nuclear power capacity of approximately 5,601 MW; and combustion turbine capacity (on oil at 95 degrees Fahrenheit) of approximately 3,843 MW, for a total summer NDC of approximately 30,477 MW.
- (2) Combustion turbine capacity includes 9 MW for Meridian Naval Air Station diesel generators, 14 MW for Bellefonte Nuclear Plant diesel generators and 4,620 MW for turbines (on oil at 25 degrees Fahrenheit). As of September 30, 2002, 16 of TVA's combustion turbine units were leased to private entities and leased back to TVA under long-term leases. In December 2002, TVA leased and leased back 4 more of its combustion turbine units under long-term leases.

- (3) Four hydro plants owned by TAPOCO, Inc., a subsidiary of the Aluminum Company of America ("Alcoa"), are operated as part of the TVA power system. Under contractual arrangements with TAPOCO, Inc., electric power generated at these facilities is supplied to TVA. In return, TVA supplies electric power for Alcoa's aluminum plant operations located in Tennessee.
- (4) The U.S. Army Corps of Engineers' eight hydro plants on the Cumberland River System have a total installed capacity of 975 MW, of which 405 MW of capacity is available to TVA under a marketing agreement with the Southeastern Power Administration.
- (5) TVA has contracted with Choctaw Generation, L.P., for 440 MW from a lignite-fired generating plant in Chester, Mississippi. The contract has a 30-year term.

Under arrangements among TVA, the U.S. Army Corps of Engineers (the "CORPS") and the Southeastern Power Administration ("SEPA"), eight hydro plants of the CORPS on the Cumberland River System are operated in coordination with the TVA system. These arrangements further provide for capacity (405 MW) and energy from the Cumberland River System to be supplied to TVA by SEPA at the points of generation and the price paid for the power to be based on the operating and maintenance expenses and amortization of the power facilities. A portion of the output of the Cumberland River System is also made available to SEPA's customers outside the TVA region. The agreement with SEPA covering these arrangements for power from the Cumberland River System can be terminated upon three years' notice. This notice may be given beginning June 30, 2017.

TVA has also supplemented its existing generation portfolio with additional renewable resource assets (wind, solar and methane gas technologies). These assets account for about 5 MW of capacity. Current power projections indicate that in the near term ample power from generation sources within the TVA service area should be available to meet TVA's power needs at competitive prices.

#### LEGAL PROCEEDINGS

The Environmental Protection Agency ("EPA") has commenced judicial and administrative actions against a number of utilities in the eastern U.S., including TVA, alleging that they have modified their coalfired units without complying with new source review ("NSR") requirements. TVA contends EPA's enforcement action is based on a new interpretation of an old rule and that TVA has routinely maintained its power plants to ensure efficient, reliable power generation while complying with all requirements. EPA issued TVA an administrative order directing TVA to put new source controls on 14 of its coal-fired units and to evaluate whether more controls should be installed on other units. TVA has challenged the validity of this order in the Eleventh Circuit Court of Appeals, and the court has stayed the order pending review, has upheld its jurisdiction over the case, and heard oral argument on the merits in May 2002. The outcome of this litigation and the EPA proceedings is uncertain. It is not possible to predict with certainty what impact implementation of EPA's order would have on TVA if TVA's challenge is unsuccessful. If EPA substantially prevails, TVA could be required to incur capital costs in excess of \$3 billion by 2010 to 2012. Any additional controls that TVA could be required to install on units as a result of this matter would, however, also be sufficient to comply with reduction requirements that are anticipated under the other air quality programs (discussed under "Management's Discussion and Analysis of Financial Condition and Results of Operations" — "Environmental Matters") through the 2010-2012 time period. Thus, because of the other environmental program requirements, TVA would, in any event, likely have to incur a substantial portion of the costs that might result from the EPA enforcement action, albeit the schedule for the installation of the controls could be somewhat accelerated by the EPA enforcement action. TVA fully supports the need to further reduce emissions from coal-fired plants and seeks a resolution that will not put TVA customers and the region at a disadvantage.

The National Parks Conservation Association ("NPCA") and the Sierra Club filed cases in federal district courts raising the same NSR allegations at TVA's Bull Run Fossil Plant and Colbert Fossil Plant Unit 5 as were raised in the EPA proceedings. Both cases have been stayed pending a decision from the Eleventh Circuit.

Environmental groups are taking legal action against TVA, as well as against other utilities across the country, for allegedly violating opacity limits applicable to coal-fired plants.

- The Alabama Environmental Council and the Sierra Club filed a lawsuit in federal district court in Florence, Alabama, alleging that TVA violated Clean Air Act opacity limits applicable to Colbert Fossil Plant between July 1, 1997 and June 30, 2002. The groups seek a court order requiring TVA to bring Colbert Fossil Plant into continuous compliance with the opacity limits, which would require TVA to incur substantial costs in addition to the costs TVA is already planning to incur for environmental controls and to pay civil penalties of up to approximately \$250 million. TVA filed its answer to the lawsuit in November 2002.
- The Sierra Club gave notice in a September 26, 2002, letter that it intends to sue TVA for violating Clean Air Act opacity limits applicable to the John Sevier and Kingston Fossil Plants. The notice claims that TVA violated opacity standards at the two plants from July 1, 1997, to the present. The alleged opacity violations substantially overlap those that were challenged in a lawsuit filed by the NPCA two years ago in federal court in Knoxville, Tennessee. TVA ultimately prevailed in that lawsuit.

On December 28, 2001, Bowater Incorporated and Bowater Newsprint South, Inc. (together, "Bowater") filed a lawsuit against TVA in federal court in Knoxville challenging TVA's charges for Economy Surplus Power ("ESP") and Testing and Restart Power ("TRP") for two Bowater plants. In its complaint, Bowater alleges that in violation of the contract provision which states that TVA will charge ESP and TRP customers based on TVA's actual hourly incremental cost of providing ESP (1) TVA included certain alleged nonincremental costs in the prices for ESP and TRP and (2) when calculating such prices TVA used the cost of providing the most expensive 100 MWs of ESP sold during a given hour instead of the average cost in that hour of serving the entire ESP load. The complaint also alleges that TVA has been unjustly enriched as a result of these overcharges. The lawsuit seeks, among other things, compensatory damages in excess of \$25 million and interest of more than \$10 million. TVA believes that it will prevail in this lawsuit based on the information presently available.

TVA is a party to various other civil lawsuits and claims that have arisen in the ordinary course of its business. Although the outcome of these other civil lawsuits and claims cannot be predicted with any certainty, it is TVA's belief that their ultimate outcome should not have a materially adverse effect on TVA's financial position or results of operations.

# CERTAIN PROVISIONS OF THE TENNESSEE VALLEY AUTHORITY ACT AND RELATED LEGISLATION

The following summaries of certain provisions of the Act and related legislation are **not complete** and are qualified in their entireties by reference to the full texts of the Act and the related legislation.

#### Payments in Lieu of Taxes

TVA is not subject to federal income taxes or to taxation by states or their subdivisions. However, the Act requires TVA to make payments in lieu of taxes to states and counties in which the Corporation conducts power operations and in which the Corporation has acquired properties previously subject to state and local taxation. The basic amount of these payments is 5 percent of gross revenues from the sale of power during the preceding year excluding payments to other federal agencies and off-system sales with other utilities, with a provision for minimum payments under certain circumstances. During 2002 and 2001, TVA made payments totaling \$328 million and \$315 million, respectively, to the states of Alabama, Georgia, Illinois, Kentucky, Mississippi, North Carolina, Tennessee and Virginia.

# Payments to the Treasury

The Act requires TVA to make certain payments to the Treasury each year from Net Power Proceeds in excess of those required for debt service, as a return on and reduction of the Appropriation Investment. The

Appropriation Investment totaled \$488 million as of September 30, 2002. Net Power Proceeds are defined as the remainder of gross power revenues from TVA's power program

#### after deducting

- the costs of operating, maintaining and administering its power properties (including multiple-purpose properties in the proportion that multiple-purpose costs are allocated to power) and
- payments to states and counties in lieu of taxes,

## but before deducting

• depreciation accruals or other charges representing the amortization of capital expenditures,

### plus

• the net proceeds of the sale or other disposition of any interest in TVA's power properties that constitute an operating unit or system.

## **Acquisition of Real Estate**

The Act empowers TVA to acquire real estate in the name of the United States of America by purchase or by exercise of the right of eminent domain, "and thereupon all such real estate shall be entrusted to the Corporation as the agent of the United States to accomplish the purposes of [the] Act." Thus, all references in this Statement to TVA properties, and to the amounts invested in TVA properties, should be read and construed in the light of this provision of the Act.

#### Other Legislation

In October 1997 Congress enacted the Energy and Water Development Appropriations Act, 1998, Pub. L. No. 105-62, 111 Stat. 1320, 1338 (1997). The paragraph captioned "TENNESSEE VALLEY AUTHORITY" in Title IV of this act (the "Appropriations Act Paragraph") requires TVA, beginning with 1999, to fund nonpower programs that constitute "essential stewardship activities" with revenues derived from one or more of various sources, including power revenues, notwithstanding provisions of the TVA Act and power bond covenants to the contrary. These programs historically had been funded with appropriated funds rather than power revenues.

#### The Appropriations Act Paragraph states:

For the purpose of carrying out the provisions of the Tennessee Valley Authority Act of 1933, as amended (16 U.S.C. ch. 12A), including hire, maintenance, and operation of aircraft, and purchase and hire of passenger motor vehicles, \$70,000,000, to remain available until expended, of which \$6,900,000 shall be available for operation, maintenance, surveillance, and improvement of Land Between the Lakes; and for essential stewardship activities for which appropriations were provided to the Tennessee Valley Authority in Public Law 104-206, such sums as are necessary in fiscal year 1999 and thereafter, to be derived only from one or more of the following sources: nonpower fund balances and collections; investment returns of the nonpower program; applied programmatic savings in the power and nonpower programs; savings from the suspension of bonuses and awards; savings from reductions in memberships and contributions; increases in collections resulting from nonpower activities, including user fees; or increases in charges to private and public utilities both investor and cooperatively owned, as well as to direct load customers: Provided, That such funds are available to fund the stewardship activities under this paragraph, notwithstanding sections 11, 14, 15, 29, or other provisions of the Tennessee Valley Authority Act, as amended, or provisions of the TVA power bond covenants: Provided further, That the savings from, and revenue adjustments to, the TVA budget in fiscal year 1999 and thereafter shall be sufficient to fund the aforementioned stewardship activities such that the net spending authority and resulting outlays for these activities shall not exceed \$0 in fiscal year 1999 and thereafter.

Since 1999, Congress has provided no appropriations for TVA's nonpower programs. In compliance with the Appropriations Act Paragraph, TVA is and will continue funding its essential stewardship activities with funds from its power program (and other available funds) to the extent that Congress does not make appropriations for these activities. In 1999, the last year TVA received appropriated funds, it spent a total of approximately \$75 million on essential stewardship activities, \$30 million of which amount was power funds. In 2002, TVA spent a total of approximately \$83 million on essential stewardship activities, virtually all of which was power funds (see note 10 - Stewardship Responsibilities), and TVA expects in 2003 to spend approximately the same amount of power funds on such activities as it did in 2002.

In 1998 Congress enacted legislation (Public Law No. 105-277, 112 Stat. 2681-543(1998)) that authorized TVA to prepay certain indebtedness TVA then owed to the Federal Financing Bank (the "FFB"). TVA prepaid the indebtedness in that same year. The legislation specifies that TVA shall not be permitted to obtain future financing from the FFB and requires TVA to use the savings from the prepayment to reduce its debt.

# THE BASIC RESOLUTION; POWER BONDS, DISCOUNT NOTES AND OTHER INDEBTEDNESS

TVA issues Power Bonds pursuant to Section 15d of the Act and pursuant to the Basic Resolution. Power Bonds of each series must be further authorized by Supplemental Resolution. At September 30, 2002, TVA had US\$20.1 billion, DM1.5 billion (issued in September 1996) and £450 million (£200 million issued in December 1998 and £250 million issued in July 2001) principal amount of Power Bonds outstanding. TVA may issue Power Bonds only to provide capital for TVA's power program (including refunding any Evidences of Indebtedness issued for like purposes) and only as authorized by law at the time of issuance. Power Bonds are payable as to both principal and interest solely from Net Power Proceeds, but TVA may, at its option, pay Power Bonds from the proceeds of refunding obligations or other funds legally available for such payment. Net Power Proceeds for 2002, 2001 and 2000 were \$2.8 billion, \$3.3 billion and \$3.0 billion, respectively. Power Bonds are not obligations of, or guaranteed by, the United States of America.

TVA intends from time to time to issue new Power Bonds with maturities and on terms determined in light of market conditions at the time of sale. TVA may sell new Power Bonds to dealers or underwriters, who may resell the new Power Bonds in public offerings or otherwise. Additionally, TVA may sell new Power Bonds directly or through other entities.

The offering circular, and any appropriate amendment or supplement to the offering circular, for each offering of new Power Bonds, except for new Power Bonds offered under a program on a continuous basis, will set forth the following information: (1) the aggregate principal amount, (2) maturity, (3) interest rate or method for determining such rate, (4) interest payment date(s), (5) purchase price to be paid to TVA, (6) any terms for redemption or other special terms, (7) form and denomination of new Power Bonds, (8) information as to any stock exchange listing, (9) the names of any dealers, underwriters or agents, (10) a description of any amendments or supplements to the Basic Resolution in connection with the sale of the new Power Bonds, and (11) other terms of the new Power Bonds.

For Power Bonds offered under a program on a continuous basis, TVA will prepare a single offering circular that describes the general terms and conditions common to all Power Bonds issued under the program. The offering circular will describe how, if at all, the offering circular will be supplemented in order to reflect, among other things, the specific terms and conditions of the Power Bonds being offered. At the time of each sale, TVA will determine if the Power Bonds being sold will be subject to redemption prior to the maturity date and will establish the purchase price, principal amount, interest rate or interest rate formula, maturity date and certain other terms of such sale.

TVA also issues Discount Notes pursuant to Section 15d of the Act and in accord with Section 2.5 of the Basic Resolution. As of September 30, 2002, TVA had approximately \$3.5 billion in Discount Notes outstanding. Discount Notes are payable solely from Net Power Proceeds, but TVA may, at its option, pay Discount Notes from the proceeds of refunding obligations or other funds legally available for such payment. TVA intends to offer Discount Notes for sale on a continuous basis to a group of securities dealers selected by TVA, who will generally resell the notes. TVA will issue Discount Notes in a form and upon terms and conditions as it deems appropriate. Certain information respecting Discount Notes will be set forth in a Discount Notes offering circular and any appropriate supplement to the offering circular. Discount Notes are not obligations of, or guaranteed by, the United States of America.

TVA may issue Other Indebtedness pursuant to Section 15d of the Act and in accordance with Section 2.5 of the Basic Resolution. An offering circular, and any appropriate amendment or supplement to the offering circular, for each offering of Other Indebtedness will set forth the following information: (1) the aggregate principal amount, (2) maturity, (3) interest rate or method for determining such rate, (4) interest payment date(s), (5) purchase price to be paid to TVA, (6) any terms for redemption or other special terms, (7) form and denomination of Other Indebtedness, (8) information as to any stock exchange listing, (9) the names of any dealers, underwriters or agents, and (10) other terms of Other Indebtedness. Other Indebtedness will not be obligations of, or guaranteed by, the United States of America.

Income on Evidences of Indebtedness issued by TVA is subject to United States federal income taxation and various other federal tax consequences. There is no special exemption for Evidences of Indebtedness from federal estate and gift taxes. Under the Act, Evidences of Indebtedness are exempt both as to principal and interest from all taxation now or hereafter imposed by any state or local taxing authority except estate, inheritance and gift taxes. This exemption might not extend to franchise or other nonproperty taxes imposed on corporations or to gain or loss realized upon the sale or exchange of an Evidence of Indebtedness even though such gain might in some cases be treated as interest income for federal income tax purposes.

The following summary of certain provisions of the Basic Resolution is not complete and is qualified in its entirety by reference to the full text of the Basic Resolution. See also "Certain Provisions of the Tennessee Valley Authority Act and Related Legislation" — "Other Legislation."

## **Application of Net Power Proceeds**

Section 2.3 of the Basic Resolution provides as follows:

Net Power Proceeds shall be applied, and the Corporation hereby specifically pledges them for application, first to payments due as interest on Bonds, on Bond Anticipation Obligations, and on any Evidences of Indebtedness issued pursuant to Section 2.5 which rank on a parity with Bonds as to interest; to payments of the principal due on Bonds for the payment of which other provisions have not been made and on any Evidences of Indebtedness issued pursuant to Section 2.5 which rank on a parity with Bonds as to principal and for the payment of which other provisions have not been made; and to meeting requirements of sinking funds or other analogous funds under any Supplemental Resolutions. The remaining Net Power Proceeds shall be used only for:

- (a) Required interest payments on any Evidences of Indebtedness issued pursuant to Section 2.5 which do not rank on a parity with Bonds as to interest.
- (b) Required payments of or on account of principal of any Evidences of Indebtedness which do not rank on a parity with Bonds as to principal.
- (c) Minimum payments into the United States Treasury required by the Act in repayment of and as a return on the Appropriation Investment.
- (d) Investment in Power Assets, additional reductions of the Corporation's capital obligations, and other lawful purposes related to the Power Program; provided, however, that payments into the United States Treasury in any fiscal year in reduction of the Appropriation Investment in addition to the minimum amounts required for such purpose by the Act may be made only if there is a net reduction during such year in the dollar amount of outstanding Evidences of Indebtedness issued for capital purposes, and only to such extent that the percentage of aggregate reduction in the Appropriation Investment during such year does not exceed the percentage of net reduction during the year in the dollar amount of outstanding Evidences of Indebtedness issued for capital purposes.

#### Section 2.4 of the Basic Resolution provides as follows:

The Corporation, having first adopted a Supplemental Resolution authorizing the issuance of a series of Bonds and pending such issuance, may issue Bond Anticipation Obligations and renewals thereof (including Interim Obligations to the Secretary of the Treasury) to be paid from the proceeds of such series of Bonds when issued or from other funds that may be available for that purpose.

# Section 2.5 of the Basic Resolution provides as follows:

To assist in financing its Power Program the Corporation may issue Evidences of Indebtedness other than Bonds and Bond Anticipation Obligations, which may be payable out of Net Power Proceeds subject to the provisions of Section 2.3 hereof. Such other Evidences of Indebtedness may rank on a parity with but shall not rank ahead of the Bonds as to payments on account of the principal thereof or the interest thereon.

See "Certain Provisions of the Tennessee Valley Authority Act and Related Legislation" — "Other Legislation" and "Management's Discussion and Analysis of Financial Condition and Results of Operations" — "Stewardship Responsibilities" for a discussion of legislation relating to appropriations for TVA's nonpower programs and the funding of such programs, including the use of power revenues.

#### Rate Covenant

Section 3.2 of the Basic Resolution provides as follows:

The Corporation shall fix, maintain, and collect rates for power sufficient to meet in each fiscal year the requirements of that portion of the present subsection (f) of section 15d of the Act which reads as follows:

The Corporation shall charge rates for power which will produce gross revenues sufficient to provide funds for operation, maintenance, and administration of its power system; payments to States and counties in lieu of taxes; debt service on outstanding bonds, including provision and maintenance of reserve funds and other funds established in connection therewith; payments to the Treasury as a return on the appropriation investment pursuant to subsection (e) hereof; payment to the Treasury of the repayment sums specified in subsection (e) hereof; and such additional margin as the Board may consider desirable for investment in power system assets, retirement of outstanding bonds in advance of maturity, additional reduction of appropriation investment, and other purposes connected with the Corporation's power business, having due regard for the primary objectives of the Act, including the objective that power shall be sold at rates as low as are feasible.

For purposes of this Resolution, "debt service on outstanding bonds," as used in the above provision of the Act, shall mean for any fiscal year the sum of all amounts required to be (a) paid during such fiscal year as interest on Evidences of Indebtedness, (b) accumulated in such fiscal year in any sinking or other analogous fund provided for in connection with any Evidences of Indebtedness, and (c) paid in such fiscal year on account of the principal of any Evidences of Indebtedness for the payment of which funds will not be available from sinking or other analogous funds, from the proceeds of refunding issues, or from other sources; provided, however, that for purposes of clause (c) of this definition Bond Anticipation Obligations and renewals thereof shall be deemed to mature in the proportions and at the times provided for paying or setting aside funds for the payment of the principal of the authorized Bonds in anticipation of the issuance of which such Bond Anticipation Obligations were issued.

The rates for power fixed by the Corporation shall also be sufficient so that they would cover all requirements of the above-quoted provision of subsection (f) of section 15d of the Act if, in such requirements, there were substituted for "debt service on outstanding bonds" for any fiscal year the amount which if applied annually for 35 years would retire, with interest at the rates applicable thereto, the originally issued amounts of all series of Bonds and other Evidences of Indebtedness, any part of which was outstanding on October 1 of such year.

Rates set by the Board are not subject to review or approval by any state or federal regulatory body. In a future restructured electric power industry (discussed in "Management's Discussion and Analysis of Financial Condition and Results of Operations" — "TVA and Competition"), it is possible, however, that the ability of TVA's Board to set TVA's rates as specified in the TVA Act and the Basic Resolution could be adversely affected by legislative changes or by competitive pressures.

## Covenant for Protection of Bondholders' Investment

Under the Act and Section 3.3 of the Basic Resolution, TVA must, in each successive five-year period beginning October 1, 1960, use an amount of Net Power Proceeds at least equal to the sum of (1) depreciation accruals and other charges representing the amortization of capital expenditures and (2) the net proceeds from any disposition of power facilities for either (a) the reduction of its capital obligations (including Evidences of Indebtedness and the Appropriation Investment) or (b) investment in Power Assets.

#### Issuance of Additional Bonds and Other Evidences of Indebtedness

The Act limits the issuance of Evidences of Indebtedness by TVA to a total of \$30 billion outstanding at any one time. At September 30, 2002, TVA had approximately US\$23.6 billion (including \$3.5 billion of Discount Notes), DM1.5 billion (issued in September 1996) and £450 million (£200 issued in December 1998 and £250 million issued in July 2001) of Evidences of Indebtedness outstanding. The Basic Resolution and the Act permit the issuance of Power Bonds only to provide capital for TVA's power program, including the refunding of any Evidences of Indebtedness issued for that purpose.

Power Bonds, the terms and conditions of which may not be inconsistent with the Basic Resolution, must also be authorized by Supplemental Resolution. The Basic Resolution provides that each Supplemental Resolution authorizing the issuance of Power Bonds must contain a finding by the Board that after the authorized Power Bonds have been issued, gross revenues from TVA's power program will be adequate to meet the requirements of the Basic Resolution with respect to rates and the application of depreciation accruals. These requirements are described under "The Basic Resolution; Power Bonds, Discount Notes and Other Indebtedness" — "Rate Covenant" and "Covenant for Protection of Bondholders' Investment."

Pending the issuance of Power Bonds authorized by a Supplemental Resolution, TVA may issue Bond Anticipation Obligations and renewals of Bond Anticipation Obligations (including Interim Obligations to the Secretary of the Treasury), to be paid from the proceeds of such Power Bonds when issued or from other funds that may be available for that purpose.

TVA may also issue Evidences of Indebtedness other than Power Bonds and Bond Anticipation Obligations, such as Discount Notes, to assist in financing TVA's power program. They may be payable out of Net Power Proceeds subject to the provisions of Section 2.3 of the Basic Resolution. They may not rank ahead of the Power Bonds as to principal or interest.

#### Mortgaging and Disposal of Power Properties

TVA may not mortgage any part of its power properties and may not dispose of all or any substantial portion of these properties unless it provides for a continuance of the interest, principal and sinking fund payments due and to become due on all outstanding Evidences of Indebtedness, or for the retirement of such Evidences of Indebtedness.

#### Modifications of Resolutions and Outstanding Bonds

The Basic Resolution provides for amendments to it, to any Supplemental Resolution and to any outstanding Power Bonds. Generally, TVA may make amendments to the respective rights and obligations of TVA and the bondholders with the written consent of the holders of at least  $66^2/_3$  percent in principal amount of the outstanding Power Bonds to which the amendment applies. However, TVA may not make changes in the maturity, principal amount, redemption premium or rate of interest or maturity of any interest installment, with respect to any Power Bond, or in the above percentage for any such consent, without the consent of the holder of such Power Bond.

Additionally, TVA may amend the Basic Resolution or any Supplemental Resolution without the consent of the bondholders in order (1) to close the Basic Resolution against the issuance of additional Power Bonds or to restrict such issuance by imposing additional conditions or restrictions; (2) to add other covenants and agreements to be observed by TVA or to eliminate any right, power or privilege conferred upon TVA by the Basic Resolution; (3) to modify any provisions to release TVA from any of its obligations, covenants, agreements, limitations, conditions or restrictions, provided that such modification or release shall not become effective with respect to any Power Bonds issued prior to the adoption of such amendment; (4) to correct any defect, ambiguity or inconsistency in, or to make provisions in regard to matters or questions arising under, the Basic Resolution or any Supplemental Resolution, so long as such amendments are not contrary to, or inconsistent with, the Basic Resolution or such Supplemental Resolution; or (5) to make any other modification or amendment which the Board by resolution determines will not materially and adversely affect the interests of holders of the Power Bonds.

#### **Events of Default**

Any of the following shall be deemed an Event of Default under the Basic Resolution: (1) default in the payment of the principal or redemption price of any Power Bond when due and payable at maturity, by call for redemption or otherwise; (2) default in the payment of any installment of interest on any Power Bond when due and payable for more than 30 days; or (3) failure of TVA to duly perform any other covenant, condition or agreement contained in the Power Bonds or in the Basic Resolution or any Supplemental Resolution for 90 days after written notice specifying such failure has been given to TVA by the holders of at least five percent in aggregate principal amount of the then-outstanding Power Bonds.

Upon any such Event of Default, the holders of the Power Bonds may proceed to protect and enforce their respective rights, subject to the restrictions described below. The holders of at least five percent in aggregate principal amount of Power Bonds then outstanding shall, subject to certain restrictions, have the right and power to institute a proceeding (1) to enforce TVA's covenants and agreements, (2) to enjoin any acts in violation of the rights of holders of Power Bonds, and (3) to protect and enforce the rights of holders of Power Bonds. Such holders have no right to bring any such action or proceeding against TVA unless they have given TVA written notice of an Event of Default and TVA has had a reasonable opportunity to take appropriate corrective action with respect thereto and has failed or refused to do so. *Power Bonds do not provide for acceleration upon an Event of Default*.

Holders of a majority in aggregate principal amount of the outstanding Power Bonds have the right to direct the time, method and place of conducting any proceeding for any remedy available and may waive any default and its consequences, except a default in the payment of the principal of or premium, if any, or interest on any Power Bonds.

#### Fourth Amendatory Resolution to the Basic Resolution

On March 25, 1992, TVA adopted a resolution amending the Basic Resolution, entitled "Fourth Amendatory Resolution to Basic Tennessee Valley Authority Power Bond Resolution" (the "Fourth Amendatory Resolution"), that (1) deleted from the Basic Resolution limitations on issuance of Power Bonds formerly set forth as Section 3.4 thereof and (2) amended the Basic Resolution to permit issuance of other Evidences of Indebtedness under Section 2.5 thereof that rank on a parity with Power Bonds as to principal and interest. With the deletion of Section 3.4 of the Basic Resolution, Sections 3.5 through 3.10 were renumbered as appropriate. This amendatory resolution became effective December 16, 1999, with retroactive application to all Power Bonds issued after March 25, 1992.

# **PART II**

## SELECTED FINANCIAL DATA

The following selected financial data of TVA's power program for the years 1998 through 2002 have been derived from TVA's audited financial statements. These data should be read in conjunction with the audited financial statements and notes thereto (collectively the "Financial Statements") presented in "Financial Statements and Supplementary Data."

# Condensed Statements of Income (in millions)

	For the Years Ended September 30					
	2002	2001	2000	1999	1998	
Operating revenues	\$ 6,835	\$ 6,999	\$ 6,762	\$ 6,595	\$ 6,729	
Operating expenses	(5,186)	(5,506)	(5,019)	(4,926)	(4,549)	
Operating income	1,649	1,493	1,743	1,669	2,180	
Other income, net	7	248	17	10	12	
Interest expense, net	(1,429)	(1,633)	(1,736)	(1,777)	(1,959)	
Income/(loss) before loss on impairment of assets/plant cancellation and cumulative effect of change in accounting principle	227	108	24	(98)	233	
and cumulative effect of change in accounting principle	(154)	(3,419)		217		
Net income (loss)	\$ 73	\$(3,311)	\$ 24	\$ 119	\$ 233	

# Condensed Balance Sheets (in millions)

	At September 30						
	2002	2001	2000	1999	1998		
Assets							
Current assets	\$ 1,530	\$ 1,501	\$ 1,426	\$ 1,318	\$ 1,656		
Property, plant and equipment	25,679	25,643	28,314	28,417	28,891		
Investment funds	659	725	840	731	578		
Deferred assets and other assets	2,290	1,830	2,601	2,920	2,490		
TOTAL ASSETS	\$30,158	\$29,699	\$33,181	\$33,386	\$33,615		
Liabilities and proprietary capital							
Current liabilities	\$ 4,809	\$ 6,334	\$ 4,793	\$ 3,117	\$ 4,440		
Other liabilities	3,304	2,806	2,455	2,156	2,007		
Long-term debt	21,358	19,851	21,753	23,903	23,020		
Total liabilities	29,471	28,991	29,001	29,176	29,467		
Retained earnings	349	306	3,652	3,662	3,580		
Other proprietary capital	338	402	528	548	568		
Total proprietary capital	687	708	4,180	4,210	4,148		
TOTAL LIABILITIES AND PROPRIETARY CAPITAL	\$30,158	\$29,699	\$33,181	\$33,386	\$33,615		

# COMPARATIVE FIVE-YEAR DATA STATISTICAL AND FINANCIAL SUMMARIES

	For the Years Ended September 30									
		2002		2001		2000		1999		1998
Sales (millions of kWh) (a)										
Municipalities and cooperatives		128,600		129,760		125,991		122,880		123,330
Industries directly served		26,478		23,306		22,204		22,885		18,514
Federal agencies and other		5,013		8,355		11,376		10,190	_	21,293
Total sales	_	160,091	_	161,421	_	159,571	_	155,955	_	163,137
Operating revenues (millions of dollars) (a)										
Electric										
Municipalities and cooperatives	\$	5,856	\$	5,908	\$	5,676	\$	5,510	\$	5,554
Industries directly served		732		659		626		642		523
Federal agencies and other		159		330		361		357		556
Other		88		102		99		86		96
Total revenues	\$	6,835	\$	6,999	\$	6,762	\$	6,595	\$	6,729
Electric revenue per kWh (cents)		4.21		4.27		4.18		4.17		4.07
Winter net dependable generating capacity (megawatts)										
Hydro(b)		5,660		5,677		5,544		5,492		5,491
Coal-fired fossil(c)		15,463		15,050		15,042		15,049		15,003
Nuclear units in service		5,751		5,715		5,729		5,729		5,620
Combustion turbine(d)	_	4,643		3,923	_	3,154	_	2,232	_	2,384
Total capacity(e)	_	31,517	_	30,365	_	29,469	_	28,502	_	28,498
System peak load (megawatts) —										
summer		29,052		27,368		29,344		28,295		27,253
System peak load (megawatts) — winter		26,061		27,163		25,940		26,388		23,204
Percent gross generation by fuel source										
Coal-fired fossil		63%		64%		63%		63%		62%
Hydro		6%		6%		6%		7%		10%
Nuclear		30%		29%		31%		30%		28%
Combustion turbine		1%		1%		NM		NM		NM
Fuel cost per kWh (cents)										
Coal-fired fossil		1.39		1.32		1.27		1.28		1.25
Combustion turbine		4.65		6.07		6.22		3.94		4.01
Nuclear		0.41		0.44		0.49		0.51		0.71
Aggregate fuel cost per kWh net thermal generation		1.11		1.08		1.05		1.05		1.10

	For the Years Ended September 30								
	2002	2001	2000	1999	1998				
Fuel data									
Net thermal generation (millions of kWh)	141,272	146,806	143,224	137,169	139,727				
Billion Btu	1,458,367	1,505,504	1,470,452	1,403,110	1,426,151				
Fuel expense (millions of dollars)	1,564	1,588	1,504	1,434	1,538				
Cost per million Btu (cents)	107.25	105.47	102.29	102.21	107.81				
Net heat rate	10,323	10,255	10,267	10,229	10,207				

- (a) Sales and revenues have been adjusted to include sales to other utilities.
- (b) Includes 405 megawatts of capacity from the Corps of Engineers projects on the Cumberland River System and 326 megawatts of capacity from four hydro plants owned by TAPOCO, Inc.
- (c) Includes 440 megawatts of capacity from a power purchase agreement under which TVA has contracted with Choctaw Generation, L.P., for power from a lignite-fired generation plant in Chester, Mississippi.
- (d) As of September 30, 2002, includes sixteen 85 MW units subject to lease/leaseback arrangements.
- (e) Total summer NDC for 2002, 2001, 2000, 1999 and 1998 was approximately 30,477 MW, 29,405 MW, 28,612 MW, 28,076 MW and 27,950 MW, respectively.

# MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Management's Discussion and Analysis of Financial Condition and Results of Operations ("MD&A") explains the results of operations and general financial condition of TVA. The MD&A should be read in conjunction with the accompanying Financial Statements.

#### **Results of Operations**

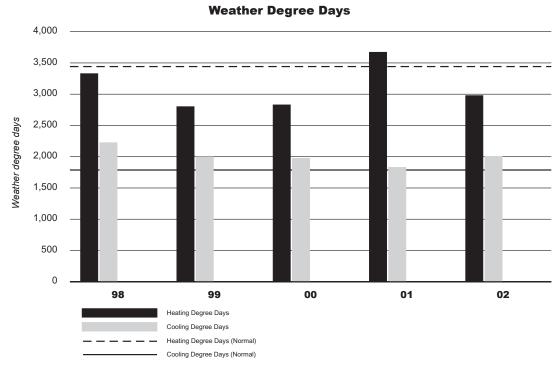
The following table compares operating results and selected statistics (dollars in millions) for TVA for the years ended September 30:

	2002	2001	2000
Operating revenues	\$ 6,835	\$ 6,999	\$ 6,762
Operating expenses	(5,186)	(5,506)	(5,019)
Operating income	1,649	1,493	1,743
Other income, net	7	248	17
Interest expense	(1,429)	(1,633)	(1,736)
Loss on impairment of assets/plant cancellation	(154)	(3,419)	
Net income (loss)	\$ 73	<u>\$(3,311</u> )	\$ 24
Sales (millions of kWh)	160,091	161,421	159,571
Heating degree days	2,978	3,671	2,829
Cooling degree days	1,999	1,830	1,974

### 2002 Compared to 2001

Net income for 2002 was \$73 million compared with a net loss of \$3,311 million for 2001. The \$3,384 million increase in earnings resulted primarily from a loss on impairment of long-lived assets of \$3,419 million in 2001.

Operating Revenues. Operating revenues, consisting of sales of electricity and other power revenues, were \$6,835 million in 2002, and \$6,999 million in 2001, including sales of electricity of \$6,747 million in 2002 and \$6,897 million in 2001. The \$150 million decrease in sales was primarily due to a \$170 million decline in interchange revenue due to lower market prices influenced by new independent power producer generating plants coming on line in 2002. In addition, energy sales to municipalities and cooperatives declined by \$52 million primarily as a result of the warmer winter weather during 2002. There were 19 percent fewer heating degree days in 2002 as compared to 2001. Sales to directly served industries increased by \$73 million from 2001 to 2002 due to changes in product and service mix to certain customers. Accordingly, total kWh sales to all customers decreased 1.3 billion kWh, from 161.4 billion in 2001 to 160.1 billion in 2002. Other power revenues consist of energy related services and miscellaneous revenues. The \$14 million decrease from 2001 to 2002 is primarily due to a decline in wheeling revenues as a result of a lower level of interchange sales.



A "Weather Degree Day" is a unit of measure used to express the extent to which temperatures vary from a specific reference temperature during a given period. Companies may use standard reference figures of 80 degrees Fahrenheit for cooling degree days and 60 degrees Fahrenheit for heating degree days. Others sometimes use 65 degrees Fahrenheit as the standard reference for both heating and cooling degree days. TVA uses 65 degrees Fahrenheit.

Operating Expenses. Total operating expenses, which are composed of fuel and purchased power, operating and maintenance, depreciation and amortization, and tax-equivalents, decreased \$320 million, or 6 percent, from \$5,506 million in 2001 to \$5,186 million in 2002. Fuel and purchased power decreased by \$64 million, or 3 percent. This was primarily due to a corresponding 3 percent decrease in generation resulting in a reduction in fuel expense of \$23 million and a decrease in the amount of power purchased of \$41 million due to lower power demand in 2002. Additionally, depreciation and amortization expense was \$285 million lower in 2002 reflecting a \$325 million reduction in amortization of regulatory assets, net of increased depreciation expense of \$40 million for capital projects placed in service in 2002. Accelerated amortization of regulatory assets decreased \$164 million from \$230 million in 2001 to \$66 million in 2002 (see "Critical Accounting Policies" — "Amortization Adjustments" below and note 1 — Other Deferred Charges — Accelerated Amortization). The decreases in fuel and depreciation were partially offset by an increase in operating and maintenance expenses of \$180 million in 2002 over 2001 as a result of increased outage and other costs. Tax equivalent payments increased \$13 million in 2002 due to a higher revenue base in 2001, the measuring year for the 2002 payments.

*Other Income.* TVA had net other income of \$7 million in 2002 compared with net other income of \$248 million in 2001. The 2001 net other income resulted primarily from a purchased power contract settlement in excess of \$200 million.

Interest Expense. Net interest expense declined \$204 million from \$1,633 million in 2001 to \$1,429 million in 2002. Total outstanding indebtedness, as of September 30, 2002, was \$25.3 billion, with an average interest rate of 5.89 percent; as of September 30, 2001 this amount outstanding was \$25.4 billion, with an average interest rate of 6.57 percent.

Loss on Impairment of Assets/Plant Cancellation. In 2001, TVA identified certain assets for which estimated future cash flows provided through future rates were likely to be less than recorded book values. Accordingly, TVA reduced the carrying amount of these assets by a total of \$3,419 million, of which \$2,220 million was attributable to deferred nuclear generating units, \$789 million was attributable to deferred debt refinancing costs and \$410 million was attributable to plant held for future use (see note 1—Impairment of Assets).

Due to changes in the market forecast, TVA elected during 2002 not to complete a gas-fired combined-cycle plant that would have provided 510 megawatts of power in 2004. Accumulated costs of the project totaled approximately \$154 million, which TVA recognized as a loss on plant cancellation.

## 2001 Compared to 2000

Net loss for 2001 was \$3,311 million compared with net income \$24 million for 2000. The reduction in earnings resulted primarily from a loss on impairment of long-lived assets of \$3,419 million in 2001 (see "Loss on Impairment of Assets/Plant Cancellation" below and note 1 — *Impairment of Assets*).

Operating Revenues. Operating revenues were \$6,999 million in 2001 compared with \$6,762 million in 2000. The \$237 million increase was primarily due to a \$232 million increase in energy sales to municipalities and cooperatives as a result of the cold winter weather during 2001. Total kWh sales to municipalities and cooperatives increased 3.8 billion kWh, from 126.0 billion in 2000 to 129.8 billion in 2001. Sales to directly served industries increased by \$33 million from 2000 to 2001 primarily due to implementation of a fixed-rate contract with a large manufacturing customer. Interchange sales were \$27 million less in 2001 than in 2000 due to a decrease in interchange sales of 30 percent or 2.9 billion kWh.

Operating Expenses. Operating expenses increased \$487 million, or 9 percent, from \$5,019 million in 2000 to \$5,506 million in 2001. Fuel and purchased power costs increased \$27 million primarily due to higher fossil fuel costs of \$110 million due to a 5 percent increase in fossil generation, offset by lower nuclear and purchased power expense of \$83 million. Operating and maintenance expenses of \$1,660 million in 2001 were \$217 million higher than in 2000. This is a result of an increase in power production of 3 percent. Depreciation and amortization expense of \$1,185 million in 2000 increased \$127 million to \$1,312 million in 2001 primarily due to additional depreciation of \$23 million on projects placed in service and amortization of regulatory assets of \$104 million. The increase in tax equivalent payments of \$7 million in 2001 was due to a higher revenue base in 2000, the measuring year for 2001 payments. Accelerated amortization increased \$109 million from 2000 to 2001 (see note 1 — Other Deferred Charges — Accelerated Amortization).

Other Income. TVA had net other income of \$248 million in 2001 compared with net other income of \$17 million in 2000. The 2001 net other income resulted primarily from a purchased power contract settlement in excess of \$200 million.

Interest Expense. Net interest expense declined \$103 million from \$1,736 million in 2000 to \$1,633 million in 2001. Total outstanding indebtedness, as of September 30, 2001, was \$25.4 billion, with an average interest rate of 6.57 percent; as of September 30, 2000 this amount outstanding was \$26.0 billion, with an average interest rate of 6.83 percent.

Loss on Impairment of Assets/Plant Cancellation. The net change of \$3,419 million in loss on impairment of assets/plant cancellation is due to actions taken as a result of TVA's periodic financial reviews. In 2001, TVA identified certain assets for which estimated future cash flows provided through future rates

were likely to be less than recorded book values. Accordingly, TVA reduced the carrying amount of these assets by a total of \$3,419 million, of which \$2,220 million was attributable to deferred nuclear generating units, \$789 million was attributable to deferred debt refinancing costs and \$410 million was attributable to plant held for future use (see note 1 — *Impairment of Assets*). No such assets were written off during 2000.

# **Liquidity and Capital Resources**

Capital Structure

Primarily during the first 25 years of TVA's existence, the U.S. government made appropriation investments in TVA power facilities. In 1959, TVA received congressional approval to issue bonds in order to finance its growing power program. Since that time, TVA's power program has been required to be self-supporting. As a result, TVA funds its capital requirements through internal cash generation, through borrowings (subject to a congressionally-mandated \$30 billion limit on the amount of outstanding Evidences of Indebtedness) or through other financing arrangements including lease/leaseback transactions.

TVA is required to pay the U.S. government a return on the appropriation investment in TVA power facilities, plus a repayment of the investment as specified by law. The combined payment for 2002 was \$50 million. Cumulative repayments and return on investment paid by TVA to the U.S. Treasury exceed \$3.4 billion on the government's appropriation investment of \$1.4 billion, approximately \$955 million of which TVA has repaid.

TVA's liquidity and capital measurements (dollars in millions) for its power program for the years ended September 30 are:

	2002	2001	2000
Cash flow from operations	\$1,347	\$1,914	\$1,584
Construction expenditures	\$1,231	\$1,015	\$ 867
Operating cash flow to construction expenditures	1.09x	1.89x	1.83x
Times interest earned	1.92x	2.20x	1.93x

#### Comparative Cash Flow Analysis

TVA's summary cash flows for its power program for the years ended September 30 are:

	2002	2001	2000
Cash provided by/(used in):			
Operating activities	\$ 1,347	\$ 1,914	\$ 1,584
Investing activities	(1,346)	(1,191)	(1,035)
Financing activities	57	(732)	(304)
Net increase (decrease) in cash and cash equivalents	\$ 58	<u>\$ (9)</u>	\$ 245

## 2002 Compared to 2001

Net cash provided by power program operating activities decreased \$567 million from 2001 to 2002. The decrease includes a decline in interchange revenue due to lower market prices influenced by new independent power producer generating plants. In addition to lower sales, operating and maintenance expenses increased due to planned (budgeted) maintenance and unplanned outages. Funds were also used to pay current liabilities, which declined 24 percent during 2002.

Cash used in investing activities increased \$155 million due to additional expenditures for capital projects of \$216 million and fabrication of nuclear fuel of \$52 million, partially offset by cash received from other investing activities of \$113 million primarily due to a decrease in long-term investments during 2002.

Net cash provided by financing activities increased \$789 million from 2001 to 2002 as a result of reduced debt repayments of \$495 million and proceeds from a lease/leaseback of \$320 million, partially offset by an increase in financing costs of \$29 million related to bond issues.

## 2001 Compared to 2000

Cash provided by power program operating activities increased \$330 million from 2000 to 2001. This is primarily the result of increased sales to municipalities and cooperatives due to 15 percent greater weather degree days in 2001 and collection of a contract settlement offset by an increase in operating and maintenance expenses due to greater generation and purchased power to meet sales demands as well as funds provided by operating assets and liabilities.

Cash used in investing activities increased \$156 million due to additional expenditures for capital projects of \$148 million and an increase in long-term investments of \$100 million. Cash provided by investing activities increased \$90 million for a decrease in fabrication of nuclear fuel from the prior year.

Cash used by financing activities increased \$428 million from 2000 to 2001 from an increase in debt repayments of \$217 million and a decrease in net lease/leaseback proceeds of \$329 million, offset by a decrease in financing costs of \$119 million related to bond issues.

#### Capital Resources

For purposes of refinancing outstanding debt, TVA continued to access capital markets through costeffective, long-term financing structures and continued to expand its global investor base, as well as its
domestic retail investor base. TVA offered global securities in December 2001, issuing \$600 million of 15-year
bonds with a put option in 2006. In April, TVA issued \$936 million of new 10-year bonds with a lower coupon
and a put option in 2004 in exchange for outstanding 10-year bonds with a higher coupon and a put option in
May 2002. The extension of the early redemption feature motivated investors to exchange the existing bonds
for the new bonds with a lower coupon. TVA continued to target retail investors through its medium-term
note program, electronotes®, offering 23 issues ranging in size from \$6 million to more than \$61 million, for a
total of \$584 million for the current year. Total electronotes® outstanding at September 30, 2002, was
\$869 million. During 2002, TVA redeemed outstanding long-term issues totaling approximately \$2.7 billion.

## Lease/Leaseback Transactions

In an effort to meet the growing demand for power in its service area, TVA has been involved in the construction of a series of several new peaking combustion turbine units. The first set of eight units was completed in the summer of 2000, and a second set of eight units was completed in the summer of 2001. TVA completed two additional sets of four units each during the summer of 2002. Of the financing options available to TVA, leasing alternatives provided outcomes that were the most economically favorable to TVA. At the commencement of the long-term lease and leaseback arrangements, the equity participant paid TVA rent in the amounts of \$300 million for the first set of units and \$320 million for the second set of units, representing the appraised values of the facilities. The financing costs of the lease agreements approximated a full-term implicit rate slightly below 6 percent in the case of the first lease and just above 4 percent in the case of the second lease.

TVA accounted for the respective lease proceeds as financing obligations in accordance with Statement of Financial Accounting Standards ("SFAS") No. 66, *Accounting for Sales of Real Estate*, and SFAS No. 98, *Accounting for Leases*. Accordingly, the outstanding financing obligations of \$559 million in 2002 and \$271 million in 2001 are included in Current Liabilities (\$16 million and \$6 million, respectively) and Other Liabilities (\$543 million and \$265 million, respectively) in TVA's 2002 and 2001 year-end Balance Sheets.

## Cash Requirements and Contractual Obligations

TVA estimates future cash requirements for capital expenditures for property, plant and equipment additions, including clean air projects and new generation, will be as follows:

	Actual 2002	Estim	ated Expend	litures
	2002	2003	2004	2005
		(in mi	llions)	
Capital expenditures	\$1,231	\$1,580	\$1,484	\$1,482

TVA also has contractual cash obligations, including minimum payments on operating leases and obligations, power purchase contracts and fuel purchase contracts (see note 9). TVA expects that cash provided by operating activities and new financing activities will be adequate to meet these estimated cash requirements, as well as capital expenditures. As of September 30, the amounts of contractual cash obligations maturing in each of the next five years and thereafter are shown below:

		03	2004		2	2005		2006 (in millions		2007	Thereafter			Γotal
							(In	millioi	ns)					
Leases	\$	40	\$	40	\$	39	\$	39	\$	39	\$	121	\$	318
Lease/leaseback transactions		44		44		46		44		44		640		862
Power purchase obligations		137		113		136		136		124		2,390		3,036
Other obligations	4	441		379		330		293		215		_		1,658
Fuel purchase obligations	1,:	515		999		641		178		99		374		3,806
Debt	3,4	<u> 492</u>	_2	,336	_2	,065	2	,621	_1	,051	1	3,690	_2	5,255
	\$5,0	669	\$3	,911	\$3	,257	\$3	,311	\$1	,572	\$1	7,215	\$3	4,935

## Leases

Certain property, plant and equipment are leased under agreements with terms ranging from one to 30 years. Obligations under capital lease agreements in effect at September 30, 2002 total \$36 million annually through 2007 and an aggregate of \$121 million thereafter, for a total commitment of \$301 million. Of this amount, \$138 million represents the cost of financing. Obligations under non-cancelable lease agreements in effect at September 30, 2002, total \$4 million for each of 2003 and 2004 and \$3 million for each of 2005-2007. There are no non-cancelable operating lease agreements in effect after that period. TVA also has cancelable lease agreements in effect at September 30, 2002, which total \$2 million for 2003, \$3 million for each of 2004 and 2005, \$2 million for 2006 and \$1 million for each of 2007-2013. Because of the nature of these cancelable lease agreements, they are not included in the commitment table above.

#### Lease/Leaseback Transactions

Obligations under lease/leaseback transactions in effect at September 30, 2002 total \$44 million annually for 2003 and 2004, \$46 million for 2005, and \$44 million annually for 2006 and 2007 and an aggregate of \$640 million thereafter, for a total commitment of \$862 million. Of this amount, \$301 million represents the cost of financing (see notes 7 and 9).

#### Power Purchase Obligations

TVA has an agreement for the purchase of power from a 440-megawatt, lignite-fired electric generating plant that requires TVA to purchase the plant's output for a 30-year period that began in April 2002. Pricing of the contract includes fixed and variable components with estimated power purchases approximating \$3 billion for the remainder of the contract term. TVA also entered into long-term power supply agreements with a generator for supply from a facility that has a current generating capacity of 500 megawatts. These commitments extend through May 2007 with a future obligation for demand charges in the amount of \$136 million. Agreements are in place with respect to five other projects. These five contracts are for durations of 2

to 12 years, the earliest of which began in 2000. Payments for the remainder of the terms of these five contracts are estimated to be approximately \$38 million.

Under the Public Utility Regulatory Policies Act of 1978, TVA is obligated to purchase power from qualifying facilities. In 2002, a new facility qualified under this program, and as a result TVA could be required to take up to 800 MW of power during certain on-peak hours from the facility.

## Other Obligations

TVA has approximately \$1.7 billion in long-term commitments consisting primarily of construction of generating assets and emission control facilities. Terms of the contracts extend into 2008.

# Fuel Purchase Obligations

TVA has approximately \$2.7 billion in long-term fuel purchase commitments ranging in terms of up to seven years for the purchase and transportation of coal, and approximately \$1.1 billion in long-term commitments ranging in terms of up to 10 years for the purchase of enriched uranium and fabrication of nuclear fuel assemblies.

#### Debt

At September 30, 2002, TVA had outstanding short-term debt of \$3,492 million and long-term debt at varying maturities and interest rates of \$21,763 million for a total outstanding indebtedness of \$25,255 million (see note 6).

## Capital Requirements

TVA has incurred and continues to incur substantial capital expenditures and operating expenses to comply with environmental requirements. Because these requirements change frequently, the total amount of these costs in the future is not now determinable. It is anticipated that environmental requirements will become more stringent and that compliance costs will increase, perhaps by substantial amounts. Although TVA cannot, with certainty, project the costs of additional nitrogen oxide, sulfur dioxide and particulate matter emissions controls beyond those required by the acid rain provisions of the 1990 Clean Air Act Amendments, the costs of these additional reductions could exceed \$3 billion through 2020, exclusive of approximately \$2 billion for planned scrubbers and selective catalytic reduction systems discussed in "Environmental Matters" below.

In March 2002, TVA's nuclear staff reported to the Board the results of a detailed cost and planning study which concluded that TVA can return Browns Ferry Unit 1 to service safely and economically. In May 2002, the Board initiated activities for the return of Browns Ferry Unit 1 to service. It is anticipated the project will cost approximately \$1.8 billion and will take five years to complete. It is anticipated that Browns Ferry Unit 1 will provide approximately 1,280 MWs of capacity.

## Significant Balance Sheet Changes

Total power assets increased nearly \$460 million during 2002 primarily due to the transition of a prepaid pension asset of approximately \$800 million to a minimum pension liability of approximately \$500 million due to valuation of the pension balances by independent actuaries. An intangible asset of approximately \$400 million has been recognized to properly account for the required pension changes. The offsetting charge of approximately \$900 million has been recorded as a regulatory asset, as the Board has determined that these costs will be recovered through future revenues in compliance with the Act (see "Critical Accounting Policies" — "Regulatory Assets and Liabilities" below).

## **Critical Accounting Policies**

TVA prepares its financial statements in conformity with generally accepted accounting principles accepted in the United States of America applied on a consistent basis and, in some cases, reflects amounts based on the best estimates and judgment of management, giving due consideration to materiality.

#### Revenue Recognition Policies

Revenues from power sales are recorded as power is delivered to customers. TVA accrues estimated unbilled revenues for power sales provided to customers for the period of time from the end of the billing cycle to the end of the month (see note 13).

#### Regulatory Assets and Liabilities

TVA accounts for the financial effects of regulation in accordance with SFAS No. 71, *Accounting for the Effects of Certain Types of Regulation*. As a result, TVA records certain regulatory assets and liabilities that would not be recorded on the balance sheet under generally accepted accounting principles for non-regulated entities.

TVA has approximately \$1,452 million of regulatory assets (see note 1 — Other Deferred Charges and Debt Issue and Reacquisition Costs) along with approximately \$4.1 billion of deferred nuclear units as of September 30, 2002 (see note 1 — Impairment of Assets and note 2). In the event that restructuring of the utility industry changes the application of SFAS No. 71, TVA would be required to evaluate such regulatory assets and deferred nuclear units under the provisions of SFAS No. 101, Accounting for the Discontinuation of Application of SFAS No. 71. SFAS No. 101 establishes reporting criteria for an enterprise that ceases to meet the criteria for application of SFAS No. 71.

#### Actuarial Assumptions

Net periodic pension cost is determined using assumptions as of the beginning of each year. Funded status is determined using assumptions as of the end of each year. The valuations performed at the end of 2001 were based on actuarial assumptions that were consistent for all of TVA's benefit plans. For 2002, TVA recognized pension income of about \$40 million, postretirement benefit expense of \$19 million, and workers compensation expense of approximately \$64 million.

Effective with the September 30, 2002 measurement date for funded status, the discount rate was reduced from 7.5 percent to 7.05 percent and the cost of living rate was reduced from 3.0 percent to 2.3 percent to reflect current market and demographic conditions. Additionally, TVA modified its assumption related to mortality based on results of an experience study performed during the year and converted from 1994 to 1983 mortality tables. As a result of these changes, the September 30, 2002 projected benefit obligation decreased by nearly \$128 million. The changes in assumptions had no effect on pension income for 2002, 2001 or 2000 but will reduce pension expense for 2003 by approximately \$37 million (see note 8).

# Derivatives

Effective October 1, 2000, TVA adopted the provisions of SFAS Nos. 133, Accounting for Derivative Instruments and Hedging Activities, and 138, Accounting for Certain Derivative Instruments and Certain Hedging Activities. Qualifying derivative contracts consisted of various purchased power option contracts and certain currency and interest rate swap agreements (see note 5 — Foreign Currency and Interest Rate Swaps). In accordance with SFAS No. 133, these contracts qualify for cash-flow hedge treatment. Accordingly, the effective portion of gains and losses related to such contracts is reported in accumulated other comprehensive income, while the ineffective portion is recognized through the creation of a regulatory asset/liability. The amounts accumulated in other comprehensive income and regulatory asset/liability are recognized in earnings upon settlement of the related contracts. Such treatment reflects TVA's ability and intent to account for these derivative instruments on a settlement basis for rate-making purposes.

## Amortization Adjustments

Annual provisions for amortization of deferred charges are adjusted as necessary in order to achieve certain earnings levels. Such earnings levels are set forth in resolutions adopted annually by the TVA Board of Directors in connection with the rate review process. The targeted earnings levels are based on requirements of the TVA Act and the Basic Resolution.

## Normal Purchases and Normal Sales Special Exemption

A unique characteristic of the electric utility industry is that electricity cannot readily be stored in significant quantities, and, as a result, some contracts to buy and sell electricity afford the buyer some flexibility in determining when to take electricity, and in what quantity, to meet fluctuating demands. These contracts would normally qualify as derivatives, but because electricity cannot be readily stored and an entity engaged in selling electricity is obligated to maintain sufficient capacity to meet the electricity needs of its customers, an option contract for the purchase of electricity qualifies for the normal purchases and sales exemption described in Paragraph 10 of SFAS No. 133 and Derivatives Implementation Group ("DIG") Issue No. C15, Scope Exceptions: Normal Purchases and Normal Sales Exception for Option-Type Contracts in Electricity. Contracts for the sale or purchase of power in future periods that meet the criteria of DIG Issue C15 have been categorized as "normal purchase, normal sales" contracts and are exempted from recognition in the financial statements until power is delivered.

## Nuclear Decommissioning Costs

TVA's current accounting policy for nuclear decommissioning costs recognizes all obligations related to closure and removal of its nuclear units as incurred (see note 1 — *Decommissioning Costs*). TVA measures the liability for closure at the present value of the estimated cash flows required to satisfy the related obligation, discounted at a determined rate of interest in effect at the time of original fuel load. Earnings from decommissioning fund investments, amortization expense of the decommissioning regulatory asset and interest expense on the decommissioning liability are deferred in accordance with SFAS No. 71 (see note 1 — *Decommissioning Costs*).

At September 30, 2002, the present value of the estimated future decommissioning cost of \$891 million was included in other liabilities, and the unamortized regulatory asset of \$556 million was included in deferred charges. The decommissioning cost estimates are based on prompt dismantlement and removal of a plant from service. The actual decommissioning costs may vary from the estimates because of changes in the assumed dates of decommissioning, changes in regulatory requirements, changes in technology and changes in the cost of labor, materials and equipment.

TVA maintains a decommissioning trust fund to provide funding for the ultimate decommissioning of its nuclear power plants. The fund is invested in securities selected to achieve a return in line with overall equity market performance. As of September 30, 2002, the decommissioning trust funds totaled approximately \$500 million, and as of November 30, 2002, the decommissioning trust funds totaled approximately \$570 million. This amount is less than the present value of the estimated future decommissioning costs. TVA is closely monitoring the status of its decommissioning trust fund in light of recent market performance and believes that, over the long term before the cessation of plant operations and the commencement of decommissioning activities, adequate funds from investments will be available to support decommissioning. (TVA's nuclear power plants are currently authorized to operate until 2013-2035, depending on the facility, with an additional 20 years of operation at each plant in the event of license renewal (see "Nuclear Power Program" — "Operating License Extensions" below).)

## New Accounting Standards and Pronouncements

In June 2001, the Financial Accounting Standards Board ("FASB") issued SFAS No. 143, *Accounting for Asset Retirement Obligations*, which requires that the fair value of a liability for an asset retirement obligation be recognized in the period in which it is incurred if a reasonable estimate of fair value can be made. The associated asset retirement costs are capitalized as part of the carrying amount of the long-lived asset. The statement is effective for financial statements issued for fiscal years beginning after June 15, 2002. The effect of TVA's adoption of SFAS No. 143 included a cumulative effect charge to income of \$178 million, a corresponding additional long-term liability of \$717 million, an increase in assets of \$745 million and related accumulated deprecation of \$206 million (see note 13).

In October 2001, the FASB issued SFAS No. 144, Accounting for the Impairment or Disposal of Long-Lived Assets, which replaces SFAS No. 121, Accounting for the Impairment of Long-Lived Assets and for Long-Lived Assets to Be Disposed Of. The statement addresses financial accounting and reporting for the impairment or disposal of long-lived assets. It also developed one accounting model for long-lived assets to be disposed of by sale, based on the framework established in SFAS No. 121, and addressed significant implementation issues. SFAS No. 144 requires that those long-lived assets be measured at the lower of the carrying amount or fair value less cost to sell, whether reported in continuing operations or in discontinued operations. The provisions of SFAS No. 144 are effective for financial statements issued for fiscal years beginning after December 15, 2001 and, generally, are to be applied prospectively. The impact of adoption of SFAS No. 144 is not currently known.

The purpose of Emerging Issues Task Force ("EITF") Issue 02-3, Issues Related to Accounting for Contracts Involved in Energy Trading and Risk Management Activities, is to codify and reconcile the Task Force consensuses on previously issued EITF Issues No. 98-10, Accounting for Contracts Involved in Energy Trading and Risk Management Activities, and No. 00-17, Measuring the Fair Value of Energy-Related Contracts in Applying Issue No. 98-10, and EITF Abstracts, Topic No. D-105, Accounting in Consolidation for Energy Trading Contracts between Affiliated Entities When the Activities of One but Not Both Affiliates Are within the Scope of Issue No. 98-10. These EITF Issues and Abstracts address various aspects of the accounting for contracts involved in energy trading and risk management activities. At a special October 25, 2002 meeting, the Task Force reached a consensus to rescind EITF Issue No. 98-10, the impact of which is to preclude mark-to-market accounting for all energy trading contracts not within the scope of SFAS No. 133, Accounting for Derivative Instruments and Hedging Activities. The Task Force also reached consensus that gains and losses on derivative instruments within the scope of SFAS No. 133 should be shown net in the income statement if the derivative instruments are held for trading purposes. The consensuses reached effectively supercede the consensuses reached on this Issue at the June 19-20, 2002 EITF meeting. The consensus regarding the rescission of Issue 98-10 is applicable for fiscal periods beginning after December 15, 2002. Energy trading contracts not within the scope of SFAS No. 133 purchased after October 25, 2002, but prior to the implementation of the consensus are not permitted to apply mark-to-market accounting. The adoption of EITF Issue 02-3 will have no impact on TVA's current operations.

### TVA and Competition

The electric utility industry has become increasingly competitive over the last decade. Competition is expected to continue to intensify, and restructuring legislation may dramatically change the way electric utilities do business in the future. Among the early initiatives that have begun to promote industry competition is the Energy Policy Act of 1992 (the "Energy Act"). The Energy Act and related FERC orders already allow competitors of a utility to access that utility's transmission system to sell electricity to other electric power suppliers and wholesale customers. In TVA's case, some special provisions apply.

Under the TVA Act, subject to certain minor exceptions, TVA may not currently enter into contracts that would have the effect of making it or the distributors of its power a source of power supply outside a statutorily specified area. However, under a special provision of the Energy Act (the "Anti-Cherrypicking Provision"), TVA is not required to provide its competitors access to its transmission system to transmit power for consumption within the area that TVA or the distributors of its power may serve. Thus, while TVA may not sell power outside its current service area, TVA cannot be compelled to permit its competitors to use its transmission system to sell power within TVA's service area.

In the future, it is likely that the current law that serves to limit competition between TVA and its competitors will change. In the past four years, numerous bills have been introduced in Congress designed to restructure the electric utility industry and mandate or promote competition in the industry. Within the context of restructuring legislation, some of the key issues for TVA are: (1) whether TVA rates and transmission system will be regulated by FERC, (2) whether TVA and the distributors of TVA power will be

able to sell power outside the TVA service area and whether TVA will be required to provide its competitors access to its transmission system to transmit power for consumption within the TVA service area, (3) whether Congress will attempt to shorten the terms of TVA's present wholesale power contracts with the distributors of its power, and (4) whether TVA will have the right to recover its power system investments that would no longer be economical under full and open market competition (stranded costs).

In the spring of calendar year 2000, TVA and the Tennessee Valley Public Power Association, an association comprising almost all of the distributors of TVA power, and the Tennessee Valley Industrial Committee ("TVIC"), an organization representing industries that TVA directly serves, reached consensus on draft legislation regarding the relationships between TVA and its customers in a restructured electric power industry. This draft legislation provided for: (1) simultaneous repeal on the effective date of the restructuring legislation of the Anti-Cherrypicking Provision and the provision that limits the area in which TVA and the distributors of TVA power can be a source of power supply, (2) renegotiation of power contract terms with a minimum termination notice period of three years, and a distributor option to take partial requirements from other suppliers with advance notice to TVA, (3) new limitations on TVA retail sales in TVA's current service area, (4) stranded cost recovery, (5) FERC regulation of TVA's transmission system, (6) TVA subjection to antitrust laws (with the exception of civil damages and attorney's fees), (7) reduction of most of TVA's existing regulatory role with respect to distributors, and (8) limitation on new TVA generation to that needed to meet demand within the current TVA service territory. Reacting to changes within the electric power industry and regulatory developments in the restructuring of the industry, TVA has determined that it may be appropriate to reassess certain features of the draft legislation and is in the process of opening discussions in that regard with TVA's customers.

On July 31, 2002, FERC issued its Notice of Proposed Rulemaking on "Remedying Undue Discrimination and Open Access Transmission Service and Standard Electricity Market Design," Docket No. RM01-12-000, which, if ultimately implemented, would have far-reaching effects on electricity markets across the nation. FERC's overall objective is to create competitive wholesale electricity markets for the entire United States. FERC has stated it believes that a standard market design is needed to eliminate perceived undue discrimination in the provision of transmission service, eliminate inconsistent rules across the country, mitigate the exercise of market power, and, ultimately, drive down the price of power in wholesale markets. Because TVA is not currently subject to FERC's general jurisdiction, it will not be required to implement the standard market design rule if it is adopted by FERC. Nonetheless, to the extent that surrounding electric power systems continue transitioning toward markets with standard market design features, TVA will need to ensure that its future purchases of power from those markets will be made in accordance with any new market rules and practices and that any of TVA's future sales of power into those markets will continue to be in accordance with the limitations of the Act.

Reactions to the FERC proposal have been mixed. Reactions from high-cost states in the Northeast, which have had a long history of centralized power pools, have been relatively more positive on both the market fundamentals and the need for a standardized market model than reactions from low-cost states. Some low-cost states fear that the proposal would lower prices in high-cost states at the expense of low-cost regions like the Southeast. Other critics have noted that the proposed rule would (1) unfairly eliminate native load preference, i.e., the policy of giving highest priority use of the transmission system to native load customers who have historically paid for that system; (2) lead to jurisdictional conflicts between state and federal regulators; and (3) lead to cost-shifting by failing to propose workable mechanisms for participant funding of new transmission investments. In addition to these substantive issues, criticism of FERC's aggressive timetable has been widespread. Reactions to the proposed rule have been so strong that draft legislation has been proposed that would constrain FERC's authority to move ahead.

The ultimate outcome of restructuring is highly uncertain at this time, making it extremely difficult to predict the ultimate market structure that will evolve, the timing of its evolution, and its ultimate impact on TVA. In February 2001, the United States General Accounting Office ("GAO") issued a report entitled "TENNESSEE VALLEY AUTHORITY, Debt Reduction Efforts and Potential Stranded Costs." In this report GAO said that, although TVA has made progress in reducing its level of debt and in recovering the cost of deferred assets and although its financial condition has improved, in light of its levels of debt and deferred

assets, TVA's financial flexibility to respond to financial and competitive challenges is less than that of its likely competitors, and as a result TVA could have stranded costs if Congress enacts legislation that requires TVA to compete with other electricity providers. TVA disagrees with this report. TVA continues to believe that it has certain cost advantages that would be beneficial in a restructured market. Its power prices are currently in the lowest quartile of the nation's prices, and its total power prices are average for the Southeast, a low-cost region. TVA will continue to develop plans and strategies designed to position TVA for competitive success in a restructured industry. Nevertheless, we cannot predict the outcome of any future electricity restructuring or its timing.

#### **Business Strategy**

Strategic Objectives

TVA's strategic objectives for competing in the energy market of the future encompass excellence in operating performance, economic leadership, and sensitivity to our stakeholders' needs. Critical success factors have been evaluated and targets established to reach our goals. TVA strives to:

Improve life in the Tennessee Valley through integrated management of the river system and environmental stewardship by balancing competing demands and optimization of the river system, and manage the environmental and safety impacts TVA's operations have on employees and the region;

Meet customers' needs with affordable, reliable electric power by continuing to improve power reliability to meet customer requirements, providing flexible contracts, competitive pricing of products and services and achieve excellence in stakeholder relations and communications processes;

Demonstrate leadership in sustainable economic development in the Valley by promoting development through targeted growth initiatives, and develop workforce capabilities required to be the supplier and employer of choice;

Continue the trend of debt reduction (begun in 1997) by generating more electricity for less dollars and by investing prudently;

Reduce TVA's delivered cost of power relative to the market by achieving excellence in asset optimization and production processes; and

Strengthen working relationships with all of TVA's stakeholders by shaping the culture to model TVA's values and achieve excellence in the customer value and relationship processes.

Key Indicators and Objectives

Measure	Strategic Objective	Indicator	2002	2001
Customer	Meet customers' needs with affordable, reliable electric power	Customer-connection-point interruptions (interruptions per connection point)	1.03	1.17
	Demonstrate leadership in sustainable economic development in the Valley	Jobs added or retained in the Valley	48,248	47,808
Operations	Meet customers' needs with affordable, reliable electric power	Watershed water quality (number of watersheds rated good to fair out of a maximum of 611)	512	496
Financial	Reduce TVA's delivered cost of power relative to the market	Delivered Cost of Power (cents/kWh)	4.07	4.05
People	Strengthen working relationship with all of TVA's stakeholders	All injury rate (per 100 employees)	1.97	2.32

#### **Environmental Matters**

TVA's activities are subject to various federal, state and local environmental statutes and regulations. Major areas of regulation affecting TVA's activities include air pollution control, water pollution control and management and disposal of solid and hazardous wastes.

TVA has incurred and continues to incur substantial capital expenditures and operating expenses in order to comply with environmental requirements. Because these requirements change frequently, the total amount of such costs in the future is not now determinable. It is anticipated that environmental requirements will become more stringent and that compliance costs will increase, perhaps by substantial amounts.

#### Clean Air Developments

Under the Clean Air Act, EPA has promulgated national ambient air quality standards for certain air pollutants, including sulfur dioxide ("SO<sub>2</sub>"), particulate matter and ozone. Coal-fired generating units such as TVA's are considered major sources of pollutants that impact these standards, and TVA has implemented strategies to reduce its emissions in order to comply with these air quality standards.

Title IV of the Clean Air Act Amendments of 1990 ("CAAA") requires coal-fired generation units to reduce their SO<sub>2</sub> and nitrogen oxide emissions ("NO<sub>x</sub>") in two phases in order to control acid rain. Compliance with these requirements has resulted in substantial expenditures for the reduction of emissions at TVA's coal-fired generating plants. Through 2002, TVA had invested approximately \$1 billion in capital improvements for acid rain compliance. TVA estimates it will spend an additional \$85 million between 2003 and 2006 to complete switches to lower sulfur coals for acid rain compliance purposes.

TVA's strategy for complying with the CAAA has included the use of flue gas desulfurization systems, or scrubbers, at two fossil units in addition to existing scrubbers on four other units, and the use of lower-sulfur coal at other fossil units to reduce SO<sub>2</sub> emissions. TVA has completed these scrubbers and is on schedule to complete the changeover to lower-sulfur coal.

 $NO_x$  reductions were required under the CAAA for 58 of TVA's 59 coal-fired units. The only TVA unit for which  $NO_x$  reductions are not required under the CAAA is the Atmospheric Fluidized Bed Unit 10 at TVA's Shawnee Fossil Plant. The  $NO_x$  reductions for the other 58 units were achieved through the installation of low- $NO_x$  burners and/or overfire air at 40 units and boiler optimization at the remaining 18 units. In 1996, TVA selected an early election option for four of these 58 units, which allows the four units at

John Sevier Steam Plant to be limited to Phase I NO<sub>x</sub> levels through 2007. In 2008, these four units will have to meet lower Phase II NO<sub>x</sub> levels. For the remaining 54 units, TVA has elected to average NO<sub>x</sub> emissions to meet a 54-unit NO<sub>x</sub> Averaging Plan. This option enables TVA to optimize the cost of NO<sub>x</sub> reduction while fully complying with the CAAA Title IV NO<sub>x</sub> requirements. In addition to its Title IV projects, TVA is in the process of installing selective catalytic reduction systems ("SCRs") or other NO<sub>x</sub> control technologies on at least 25 of its coal-fired units. This follows up on a commitment TVA has made to further reduce NO<sub>x</sub> emissions throughout its system. Installation of these SCRs will also comply with the EPA's State Implementation Plan NO<sub>x</sub> Reduction rule issued in 1998. Depending on future generation requirements, additional NO<sub>x</sub> controls may be required.

In TVA's continuing efforts to improve air quality in the Tennessee Valley and to comply with the Clean Air Act, TVA plans to design, build and operate five more scrubbers to further reduce SO<sub>2</sub> emissions from 12 of its coal-fired units. Although design of these scrubbers is scheduled to start in 2003, substantial construction activities are not expected to begin until TVA completes its SCR installation program in 2005. Completion of the five scrubbers is expected by 2011.

The EPA has finalized new, more stringent National Ambient Air Quality Standards for particulate matter standards and ozone and a rule designed to reduce regional haze. Each of these rule-makings has been the subject of litigation and the EPA is in the process of developing implementation strategies for the ambient standards and readdressing several provisions of the regional haze rule. These actions may require TVA to make additional reductions of SO<sub>2</sub> emissions beyond those currently planned. TVA anticipates that compliance with the new regulations will be required after 2010. The EPA has also determined that mercury emissions from coal-fired plants should be reduced and is developing both a rule to reduce mercury and legislative packages that put mercury reductions in a multipollutant plan. Depending on the severity of the mercury reductions, TVA could incur additional substantial capital costs for control of mercury.

On February 14, 2002, the Bush Administration announced its "Clear Skies Initiative," which outlines legislative requirements for the phased reduction of  $SO_2$ ,  $NO_x$ , and mercury emissions from utilities during the period from 2008 to 2018. In July of 2002, legislation known as the Clear Skies Act was introduced in Congress. A number of bills have been introduced in Congress that would result in significant decreases in emissions of  $NO_x$ ,  $SO_2$  and mercury, as well as carbon dioxide. The timing and content of such legislation remains highly uncertain.

Expenditures related to clean air projects during 2002 and 2001 were approximately \$400 million and \$200 million, respectively. The cost of the SCR strategy, including 2001 and 2002 expenditures, is now estimated to be \$1.3 billion, and the cost of the planned installation of five scrubbers is estimated to be \$1.3 billion. The total cost of future compliance with NO<sub>x</sub>, SO<sub>2</sub>, mercury and particulate matter requirements, however, cannot reasonably be determined at this time because of the uncertainties surrounding emerging EPA regulations, resultant compliance strategies, potential for the development of new emissions control technologies, court litigation, and future amendments to the Clean Air Act. However, total future costs through 2020 could exceed \$3 billion, exclusive of the costs of the planned SCRs and scrubbers. These future controls will also apply towards any enforcement liability (see "Legal Proceedings").

The EPA has instituted judicial and administrative actions against a number of utilities in the eastern U.S., including TVA, alleging that they have modified their coal-fired units without complying with new source review ("NSR") requirements. TVA contends that the EPA's enforcement action is based on a new interpretation of an old rule and that TVA has routinely maintained its power plants to ensure efficient, reliable power generation while complying with all requirements. The EPA issued TVA an administrative order directing TVA to put new source controls on 14 of its coal-fired units and to evaluate whether more controls should be installed on other units. TVA has challenged the validity of this order, and the Eleventh Circuit Court of Appeals has stayed the order pending its review. The outcome of this litigation and the EPA proceedings is uncertain (see "Legal Proceedings").

The Bush administration has reviewed the energy implications of the EPA's new NSR interpretation and concluded that there is evidence that NSR impedes utilities from increasing the efficiency and performance of existing fossil-fuel generation. TVA has determined that if the EPA's new interpretation becomes law,

TVA could lose about 11 percent of the energy capabilities of its coal-fired system within three years through permit limits on use of its units. On November 22, 2002, EPA announced changes to its NSR program intended to address aspects of the program that have deterred companies from implementing projects that would enhance energy efficiency and decrease air pollution. These changes are not anticipated to affect TVA's commitments to emissions control projects discussed above or the NSR litigation.

See "Legal Proceedings" for a discussion of Clean Air Act legal proceedings, including those involving NSR.

#### Hazardous Substances

The release and cleanup of hazardous substances are regulated under the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"). In a manner similar to many other industries and power systems, TVA has generated or used hazardous substances over the years. TVA is aware of hazardous-substance releases at eight offsite areas for which it may have some liability. TVA's potential liabilities for its share of cleanup costs at these sites are uncertain but are not expected to have significant impact on TVA's financial position or results of operations.

# Water Quality

Under the Clean Water Act ("CWA"), every point source which discharges pollutants into waters of the United States must obtain a National Pollutant Discharge Elimination System ("NPDES") permit specifying the allowable quantity and characteristics of the pollutants discharged. All of TVA's various point sources operate under NPDES permits, including all of its major generating units. Compliance with NPDES requirements has necessitated substantial expenditures and may require additional expenditures in the future as NPDES permits come up for renewal and applicable requirements become more stringent.

The CWA allows the permitting authority to establish thermal limits less stringent than the water quality criteria if the discharger can demonstrate that the alternate limit will assure protection and propagation of a balanced, indigenous aquatic population. TVA has now been issued alternate limits at several of its facilities, and it is meeting these limits. Periodic monitoring of fish and other aquatic life is required to substantiate that the standard is still being met. The CWA also requires that the design, capacity, location and construction of cooling water intake structures reflect the best technology available for minimizing adverse environmental impacts. In December 2001, the EPA issued a national rule for implementing this statutory requirement at new intakes — a rule which will require that future intakes meet specified criteria. EPA is currently engaged in rulemaking to address existing facilities — a rule which, in its proposed form, will establish national performance standards for minimizing impact to aquatic life. The new rule should reduce environmental impact uncertainty and long-term monitoring requirements. The rulemaking for existing facilities, scheduled to be issued in August 2003 but likely to be delayed until February 2004, may require additional short-term monitoring at some existing TVA facilities, and may require some additional control or operational measures if control costs are not significantly greater than the environmental benefits to be derived from their use. The need for and cost of such potential changes is uncertain, but the requirements for facilities on reservoirs and large rivers where most TVA facilities occur are less stringent than for facilities on oceans, estuaries, tidal rivers, the Great Lakes and smaller rivers.

#### Solid and Hazardous Waste Management

Under the Resource Conservation and Recovery Act ("RCRA"), the storage, transportation and disposal of hazardous wastes are regulated by EPA and the states. RCRA also allows EPA and the states to regulate solid wastes, and the states have EPA authorized programs for this. TVA has detailed procedures in place designed to ensure compliance with all applicable requirements for the management of hazardous wastes. Additionally, TVA has instituted an approved supplier list for hazardous waste disposal contractors under which such contractors' financial status, compliance history and physical facilities and operations are reviewed before they are allowed to treat or dispose of any of the hazardous wastes generated by TVA facilities. TVA does not itself operate any hazardous waste disposal or treatment facilities but does operate a permitted hazardous waste storage facility in Muscle Shoals, Alabama. TVA maintains solid waste disposal permits for

the solid waste disposal areas (e.g., fly ash, scrubber sludge, demolition materials and asbestos) it operates at some of its plant sites. TVA's costs in this area have not been substantial, but applicable requirements change frequently and are expected to become more stringent.

#### Miscellaneous

Polychlorinated biphenyls ("PCBs") have been widely used as insulating fluids in electric equipment such as transformers and capacitors. Use of this equipment and the cleanup of released PCBs are regulated by EPA under the Toxic Substances Control Act. The TVA power system uses thousands of pieces of equipment that contain some level of PCBs. These pieces of equipment, when maintained properly, may continue to be operated under EPA's PCB regulations for the remainder of their useful lives. However, both international and domestic pressures are increasing to eliminate all use of PCBs. TVA has been phasing out much of this equipment as a matter of policy. The cost of phasing out the remainder of this equipment cannot be accurately determined at this time, but is expected to be at least \$23 million. TVA has detailed procedures in place to continue operational compliance with EPA's PCB regulations and has not incurred substantial costs in this area.

There is public concern about whether there are adverse health effects from exposure to electric and magnetic fields ("EMF"). There are many sources of EMF, including electric transmission lines. Certain research, including a report by a National Academy of Sciences organization, has not found conclusive evidence that EMF causes adverse health effects. Other research, such as a report by the National Institute of Environmental Health Sciences, has found limited evidence that certain types of exposure to EMF are carcinogenic. Research in this area continues. Substantial costs could be incurred by electric systems, including TVA, if EMF levels from transmission lines have to be reduced, but this appears unlikely at this time.

### **Nuclear Power Program**

#### Overview

TVA has five operating nuclear units, three deferred nuclear units and one inoperative nuclear unit that is scheduled to be returned to service in 2007. Selected features of each of these units are described in the chart below.

Status	Installed Capacity (MW)	Net Capacity Factor for FY 2002	Date of Expiration of Operating License	Expiration of Construction License
Operating	1,221	90.2	2020	_
Operating	1,221	87.6	2021	_
Operating	1,190	94.0	2014	_
Operating	1,190	94.6	2016	_
Operating	1,270	89.8	2035	_
Deferred	_	_	_	2010
Deferred	_	_	_	(1)
Deferred	_	_	_	2004
Inoperative	_	_	2013	_
	Operating Operating Operating Operating Operating Operating Deferred Deferred Deferred	Status Capacity (MW)  Operating 1,221 Operating 1,190 Operating 1,190 Operating 1,270 Deferred — Deferred — Deferred —	Status         Capacity (MW)         Factor for FY 2002           Operating         1,221         90.2           Operating         1,221         87.6           Operating         1,190         94.0           Operating         1,190         94.6           Operating         1,270         89.8           Deferred         —         —           Deferred         —         —           Deferred         —         —	Status         Installed Capacity (MW)         Net Capacity Factor for FY 2002         Expiration of Operating License           Operating O

<sup>(1)</sup> Bellefonte Unit 1's construction license was due to expire on October 1, 2001, and Bellefonte Unit 2's is due to expire on October 1, 2004. On July 11, 2001, TVA asked the Nuclear Regulatory Commission ("NRC") to extend the construction license for Bellefonte Unit 1 until October 1, 2011 and for Bellefonte Unit 2 until October 1, 2014. While the NRC considers TVA's request, Bellefonte Unit 1's construction license is automatically extended on a day-by-day basis. Previously, Watts Bar Unit 2's construction license was similarly extended on a day-by-day basis while the NRC considered TVA's request to extend its construction license until 2010. At this time, TVA is aware of no issue that would result in the NRC's not granting TVA's request to extend the Bellefonte construction licenses.

#### Status of Certain Nuclear Units

Browns Ferry Unit 1 was taken offline in 1985 for modifications and improvements. The undepreciated cost of Browns Ferry Unit 1 of \$46 million is included in net completed plant and is being depreciated as part of the recoverable cost of the plant over the remaining license period. Reflecting the recent interest in the competitive cost of nuclear generation, the Board requested in September 2001 a technical study regarding the feasibility of recovering and restarting Browns Ferry Unit 1. In March 2002, TVA's nuclear staff reported to the Board the results of a detailed cost and planning study, which concluded that TVA can return Browns Ferry Unit 1 to service safely and economically. In May 2002, the Board of Directors initiated activities for the return of Browns Ferry Unit 1 to service in order to meet long-term energy needs in the Tennessee Valley. It is anticipated the Browns Ferry Unit 1 recovery project will add approximately 1,280 megawatts of generation at a cost of approximately \$1.8 billion and will take five years to complete. When Unit 1 returns to service, it is expected additional generation will help lower the average cost of power and provide additional cash flow for accelerated debt reduction.

TVA has three units in deferred status. In 1988, TVA suspended construction activities on Watts Bar Unit 2, and the unit is currently in lay-up. Bellefonte Unit 1 and Unit 2 were deferred in 1988 and 1985, respectively. Estimated 2003 expenditures for the three deferred units are limited to lay-up, maintenance and ensuring that options for the use of the units remain viable.

In December 1994, TVA determined that it will not, by itself, complete Bellefonte Unit 1 and Unit 2 and Watts Bar Unit 2 as nuclear units. TVA's integrated resources planning process identified as a viable option the conversion of the Bellefonte facility to a combined-cycle plant utilizing natural gas or gasified coal. In 1997 an independent team of technical and financial experts completed a feasibility study to evaluate options for the conversion of the Bellefonte Nuclear Plant to a fossil-fired plant. The feasibility study indicated that one of the most economic fossil conversion strategies would be to complete Bellefonte as a natural gas fired combined-cycle plant. TVA also issued an Environmental Impact Statement ("EIS") assessing the environmental impacts of various fossil conversion options. The EIS identified the natural gas fired combined-cycle plant alternative as the preferred option. Bellefonte remains in a deferred status; however, TVA is reexamining its nuclear and nonnuclear options for Bellefonte.

While future decisions on TVA's deferred units will ultimately impact the method of cost recovery, the TVA Board determined as of the end of 2001 that the values of some of its existing assets were not appropriate in a competitive marketplace. Certain nuclear assets, portions of Bellefonte Unit 1 and Unit 2 and Watts Bar Unit 2 in its entirety, were identified as assets for which the estimated future values were less than recorded book values. Consequently, for 2001 TVA revalued these assets downward by \$2,220 million and recognized an impairment loss. The Board will establish rate adjustments and operating policies to ensure full recovery of the remaining cost of the Bellefonte units and compliance with the requirements of the TVA Act (see "Business" — "Rates and Customers" and note 1 — *Impairment of Assets*).

#### Spent Nuclear Fuel

TVA has entered into a contract with DOE for the disposal of spent nuclear fuel. Payments are based on TVA's nuclear generation and charged to expense. The provisions of the contract called for DOE to begin accepting spent nuclear fuel from utilities on January 31, 1998, the date provided by the Nuclear Waste Policy Act of 1982. However, as of September 30, 2002, DOE has accepted no spent fuel. As a result of this failure, in April 2001 TVA filed a breach of contract lawsuit against the United States in the Court of Federal Claims. TVA's spent nuclear fuel storage facilities will be sufficient to provide storage space for spent fuel generated in TVA's system through 2004 for its Sequoyah Nuclear Plant, 2005 for its Browns Ferry Nuclear Plant, and 2018 for its Watts Bar Nuclear Plant. TVA plans to extend storage capability through life-of-plant if necessary, by using dry storage casks in independent spent-fuel storage installations located at the Browns Ferry and Sequoyah Nuclear Plants. Such spent fuel arrangements require Nuclear Regulatory Commission ("NRC") approval. However, such arrangements have been approved by the NRC at other facilities throughout the United States.

#### Low-Level Radioactive Waste

Low-level radioactive waste resulting from the normal operation of nuclear units includes such materials as disposable protective clothing, mops and filters. Disposal costs for low-level radioactive waste have increased significantly in recent years. Pursuant to the Low-Level Radioactive Waste Policy Act, each state is responsible for disposal of low-level radioactive waste generated in that state. States may form regional compacts to jointly fulfill their disposal responsibilities. The states of Tennessee and Alabama (where TVA's nuclear plants are located) have joined with other southeastern states to form the Southeast Compact Commission for Low-Level Radioactive Waste Management. This commission regulates the siting of new disposal facilities and the disposal of low-level waste within the southeastern states.

Until July 1995, the low-level waste generators located in the southeastern states were required to dispose of their radwaste at the Barnwell, South Carolina, disposal facility. South Carolina is no longer a member of the interstate compact serving the southeastern states and is now a member of the Atlantic Interstate Low-Level Radioactive Waste Compact. Recently, South Carolina announced volume caps that cannot be exceeded due to the acceptance of waste from states that are not members of the Atlantic Interstate Low-Level Radioactive Waste Compact. After June 2009, no waste will be accepted from such states, which include Tennessee and Alabama.

After reviewing its storage and disposal options for low-level radwaste management, TVA, in 1999, began storage of the type of low-level radwaste that had previously been sent to Barnwell at the storage facilities on two of TVA's plant sites. These facilities are sized to handle the anticipated storage needs for the foreseeable life of TVA's operating plants. TVA continues to send some dry radioactive waste to the Envirocare of Utah disposal facility in Clive, Utah, when economic conditions permit, and may send dry radioactive waste to the Chem-Nuclear Systems, L.L.C., disposal facility in Barnwell, South Carolina.

#### Nuclear Insurance

As of September 30, 2002, negotiation on the renewal of the Price-Anderson Act were still ongoing in Congress. While certain provisions of the Price-Anderson Act expired on August 1, 2002, the existing indemnification and limitation of liability plan continues to apply to TVA's nuclear plants. Under the Price-Anderson Act, the limit of liability from an accident at an NRC-licensed reactor is approximately \$9.3 billion (\$88 million for each of the NRC-licensed reactors in the United States), composed of primary and secondary layers of financial protection. This amount is periodically adjusted for inflation. For further information about this nuclear liability insurance and its deferred premium (see note 9 — *Contingencies* — *Nuclear Insurance*). In accordance with industry practice, TVA maintains certain liability insurance coverage for workers at its nuclear sites.

NRC regulations require nuclear power plant licensees to obtain \$1.06 billion onsite property damage insurance coverage, and TVA has acquired \$2.06 billion of such coverage per nuclear site, with a \$2.5 million deductible. Some of the nuclear property insurance may require the payment of retrospective premiums of up to approximately \$57 million in the event that losses by another insured party or TVA exceed available funds. In accordance with NRC regulations, the proceeds of nuclear property insurance are first used to ensure that the reactor is in safe and stable condition and that it can be maintained in a condition that prevents significant risk to the public. Next, the proceeds are used for decontamination or, if necessary, decommissioning the reactor. Any excess proceeds insure against casualties to property.

#### Operating License Extensions

The TVA Board of Directors also authorized the nuclear staff to ask the NCR for a 20-year extension of the operating licenses for all three reactors at the Browns Ferry Plant. Current expiration dates for the Browns Ferry units are:

Browns Ferry Unit 1	2013
Browns Ferry Unit 2	2014
Browns Ferry Unit 3	2016

The original 40-year term on licenses per the Atomic Energy Act and the NRC regulations was based on economic and antitrust considerations — not on limitations of technology.

# Tritium Production Approved

In September 2002, the NRC issued an amendment to the Watts Bar Nuclear Plant operating license, allowing TVA to irradiate tritium-producing burnable absorber rods at the plant for use by the U.S. Department of Defense. TVA's license amendment permits it to install up to 2,304 of the rods into the Watts Bar reactor and irradiate them for one fuel cycle, which lasts about 18 months. TVA will then remove the irradiated rods for shipment to DOE's tritium-extraction facility at the Savannah River Site near Aiken, South Carolina. TVA expects to begin tritium production at Watts Bar in the fall of 2003. Also in September 2002, the NRC issued an amendment to the Sequoyah Nuclear Plant operating license allowing TVA to produce tritium at the plant. TVA will recover costs associated with the tritium production program, and TVA retains the right to operate the reactors for their primary mission of producing electricity.

#### Combustion Turbine Installations/Plant Cancellation

TVA installed eight 85 MW natural-gas combustion turbines in time for the summer 2001 peak demands for power at its new Lagoon Creek site in West Tennessee. TVA also installed eight additional 85 MW natural-gas combustion turbines in 2002, four units at the existing Lagoon Creek site and four at TVA's Kemper County, Mississippi site. This brings the total number of TVA combustion turbines to 72 units — 24 of which were put on the ground in three years.

TVA recently decided not to proceed with its plans to build a gas-fired, combined-cycle plant that would have provided 510 MWs of power initially scheduled to begin operation in 2003. Current power projections indicate that in the near-term, ample power from generation sources within the TVA service area should be available to meet TVA's near-term power needs at competitive prices. Accumulated costs associated with the project total approximately \$154 million, which was recognized as a loss on plant cancellation.

#### Stewardship Responsibilities

TVA's responsibilities for managing public resources began with its creation in 1933. Today, these resource management activities help sustain the interconnected tributaries and main stem of the Tennessee River, the nation's fifth-largest river system. These resources are managed to accomplish the multiple objectives of flood control, navigation, electric power production, recreation and environmental protection. Funding for these programs has historically included federal appropriations, power revenues and nonpower revenues such as user fees.

Prior to 2000, congressional appropriations provided most of the funding for TVA's nonpower programs. TVA has obtained additional funds from revenues and user fees from the nonpower programs. In 1997, Congress enacted appropriations legislation that anticipated no further appropriations for the nonpower programs and required TVA, in the absence of appropriations, to fund certain nonpower programs constituting essential stewardship activities from various sources, which may include power revenues. Because Congress has not provided appropriations for TVA's nonpower programs since 1999, TVA primarily is using power funds (along with user fees, other forms of nonpower revenues and nonpower fund balances unused in prior years) for its essential stewardship activities in compliance with the 1997 appropriations legislation. In 1999, the last year TVA received appropriated funds, it spent a total of approximately \$75 million on essential stewardship activities, \$30 million of which amount was power funds. In 2000 and 2001, TVA spent a total of approximately \$70 million on essential stewardship activities each year. TVA expenditures on essential stewardship activities increased to \$83 million on these activities in 2002, reflecting increased expenditures associated with the Reservoir Operations Study and asset maintenance initiatives (see "Certain Provisions of the Tennessee Valley Authority Act and Related Legislation" — "Other Legislation" and note 10).

# Labor Agreements and Compensation

On September 30, 2002, TVA had 13,444 employees, of which 5,274 were represented by unions. Neither the federal labor relations laws covering most private sector employees nor those covering most federal agencies are applicable to TVA. However, the Board has a long-standing policy of acknowledging and dealing with recognized representatives of its employees, which policy is reflected in long-term agreements to

recognize the unions (or their successors) that represent TVA employees. Federal law prohibits TVA employees from engaging in strikes against TVA.

Salaries of regular TVA employees are limited by a federal pay cap (Executive Level IV, currently \$134,000). The federal pay cap makes it a challenge for TVA to recruit and retain top management talent. In response, TVA has developed and implemented supplementary compensation arrangements to reduce the impact of the pay cap and to enhance TVA's ability to attract and retain the caliber of executive talent required to manage one of the largest power systems in the country. Compensation is established considering compensation for similar positions in the relevant labor market and performance toward predefined TVA and business unit goals, both annual and long-term. TVA believes the implementation of these arrangements is within its legal authority. In the past, the General Accounting Office ("GAO") has expressed the opinion that some of TVA's compensation arrangements are not within TVA's legal authority. However, GAO has no authority to issue binding legal opinions on this matter or to stop any TVA payments. Congress has been aware of TVA's supplemental compensation arrangements and has not taken any action that would undermine TVA's position that the arrangements are within its legal authority.

In October 1995, the President issued an Executive Order requiring government corporations, including TVA, to submit information to OMB on bonuses paid to its senior executives. TVA submits information on these bonuses annually to OMB and also publicly disseminates this information. OMB approval of TVA's bonuses is not required.

# Forward-Looking Information

This Statement contains forward-looking statements relating to future events and future performance. Any statements regarding expectations, beliefs, plans, projections, estimates, objectives, intentions, assumptions or otherwise relating to future events or performance may be forward-looking.

In certain cases, forward-looking statements can be identified by the use of the words such as "may," "will," "should," "expect," "anticipate," "believe," "intend," "project," "plan," "predict," "assume," "estimate," "objective," "possible," "potential" or other similar expressions.

Some examples of forward-looking statements include statements regarding TVA's projections of future power and energy requirements; future costs related to environmental compliance; impacts of potential legislation on TVA and the likelihood of enactment of such legislation; strategic objectives; anticipated availability of nuclear waste storage facilities; projections of nuclear decommissioning costs; and impacts of pending litigation and various administrative orders which have been or may be issued.

Although TVA believes that the assumptions underlying the forward-looking statements are reasonable, TVA does not guarantee the accuracy of these statements. Numerous factors could cause actual results to differ materially from those in the forward-looking statements. These factors include, among other things, new laws, regulations and administrative orders, especially those related to the restructuring of the electric power industry and various environmental matters; increased competition among electric utilities; legal and administrative proceedings affecting TVA; the financial and economic environment; performance of TVA's generation and transmission assets; fuel prices; demand for electricity; changes in technology; changes in the price of power; loss of any significant customers or suppliers; creditworthiness of counterparties; weather conditions and other natural phenomena; changes in accounting standards; and unforeseeable events. New factors emerge from time to time, and it is not possible for management to predict all such factors or to assess the extent to which any factor or combination of factors may impact TVA's business or cause results to differ materially from those contained in any forward-looking statement.

TVA undertakes no obligation to update any forward-looking statement to reflect developments that occur after the statement is made.

# QUALITATIVE AND QUANTITATIVE DISCLOSURES ABOUT MARKET RISK

#### Governance

TVA does not engage in wholesale trading operations for the purposes of speculation. Rather, when necessary in order to supplement generation to meet its native load, TVA will engage in some aspects of physical trading. Further, TVA employs commodity-based instruments which include forwards and option

contracts to manage risks associated with the market fluctuations in the price and transportation costs of certain commodities and fuels including, but not limited to, coal, natural gas and electricity.

The Board has established a Risk Management Committee, which is charged with governance and risk oversight for TVA. These functions include but are not limited to: review and direction of risk management strategy, review and monitoring risk indicators, review and approval of counterparty exposure limits, review of new instruments for Board approval, oversight of models and assumptions used to model risk, and controls regarding the use of hedging instruments. In addition, there are policies and procedures established to provide direction for daily operations.

TVA is exposed to market risks, including changes in interest rates, foreign currency exchange rates in association with TVA bonds, volatility of energy related commodities (electricity, natural gas, coal), equity market prices and losses in the event of counterparties' nonperformance. To manage the volatility attributed to these exposures, TVA has entered into various nontrading derivative transactions, principally an interest rate swap agreement, foreign currency swap contracts, electricity contracts, coal contracts and natural gas contracts. Additionally, to manage environmental volatility, TVA has obtained options related to SO<sub>2</sub> allowances (see note 5 — *Commodity Contracts*). The exposure to losses in the event of the counterparties' nonperformance has been mitigated through controls to determine the creditworthiness of counterparties before transactions take place.

#### Value at Risk

The market risk exposure is measured through TVA's Value at Risk ("VaR") calculation. VaR is a single summary statistic of possible portfolio losses due to normal market movements for a given confidence level over a selected period of time. TVA measures VaR on a daily basis. TVA's VaR exposure for the electricity and natural gas commodities in which TVA has market positions, assuming each a 10-day holding period and a 1-day holding period, is as follows:

**Electricity** 

# Electricity Value at Risk Associated with Energy Trading Contracts and Related Energy Derivative Contracts for the Year Ended September 30, 2002

	Company Wide VaR
	(in millions)
95% Confidence level, ten-day holding period, two-tailed	
For the year ended September 30, 2002	\$ 2.42
Average for the period	\$ 7.17
High	\$24.39
Low	\$ 1.06
99% Confidence level, one-day holding period, two-tailed	
For the year ended September 30, 2002	\$ 0.99
Average for the period	\$ 2.92
High	\$ 9.95
Low	\$ 0.43

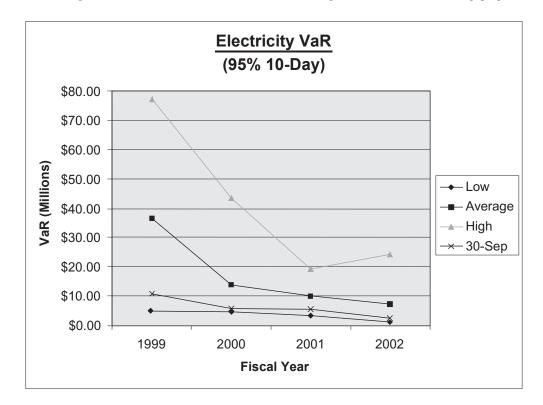
#### Notes

The VaR calculations are for the TVA 5x16 electricity portfolio for 2002. The calculations are for the rolling forward 12-month portfolio. The VaR method used is the parametric variance/covariance method accepted as an industry standard.

Back-testing of the VaR calculation is done using a statistical procedure called the chi-square test. TVA performs back-tests of the actual daily Mark-to-Market (MTM) profit and loss fluctuations for 3-month, 6-month and 12-month periods. The chi-square values for all periods are within the selected significance level indicating a valid VaR calculation.

That is to say, that given a 95 percent confidence level at September 30, 2002, there is a 2.5 percent probability TVA's electricity portfolio could lose as much as \$2.42 million over the next 10 days. The average VaR for the entire year for the 10-day holding period would be a loss of \$7.17 million. Further, given a 99 percent confidence level at September 30, 2002, there is a 0.5 percent probability that TVA's electricity portfolio could lose as much as \$0.99 million over the next day. The average VaR for the entire year for the 1-day holding period would be a loss of \$2.92 million.

The historical performance of TVA's VaR calculation is represented in the following graph:



As indicated by the chart, TVA's electricity market risk exposure has been reduced since 1999 when VaR was first measured. This reduction was primarily due to four factors: lower forward market prices as of September 30, 2002; TVA's new peaking generation coming on line; lower market price volatility in recent years; and less dependence on the energy spot market for energy balancing requirements.

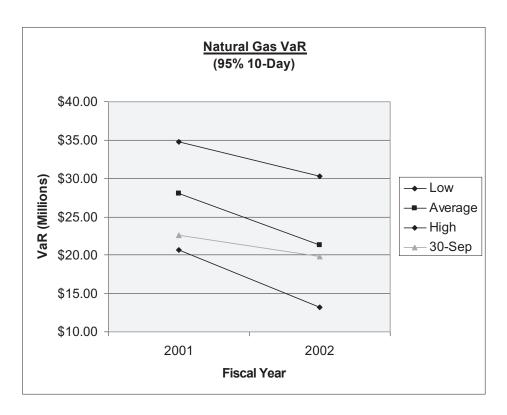
# Natural Gas Value at Risk Associated with Energy Trading Contracts and Related Energy Derivative Contracts for the Year Ended September 30, 2002

	Company Wide VaR (in millions)
050 Confidence level ton day helding named two tailed	(iii iiiiiiiolis)
95% Confidence level, ten-day holding period, two-tailed	
For the year ended September 30, 2002	\$19.79
Average for the period	\$21.35
High	\$30.31
Low	\$13.18
99% Confidence level, one-day holding period, two-tailed	
For the year ended September 30, 2002	\$ 8.08
Average for the period	\$ 8.71
High	\$12.36
Low	\$ 5.37

#### Notes

The VaR calculations are for the TVA natural gas portfolio for 2002. The calculations are for the rolling forward 12-month portfolio. The VaR method used is the parametric variance/covariance method accepted as an industry standard.

Back-testing of the VaR calculation is done using a statistical procedure called the chi-square test. TVA performs back-tests of the actual daily MTM profit and loss fluctuations for 3-month, 6-month and 12-month periods. The chi-square values for all periods are within the selected significance level indicating a valid VaR calculation.



TVA has tracked natural gas VaR exposure since 2001. The graphs above indicate TVA's lower market risk exposure to natural gas since initially tracking this measure in 2001. This reduction was primarily due to lower gas prices and TVA's 2002 gas hedges, which reduced exposure to market price fluctuations.

# Coal

TVA's contracts with coal suppliers have specified rates and volumetric flexibility which limit TVA's exposure to market risk. Given TVA's contract mix, TVA is approximately 81 percent hedged to coal market risk exposure. Because of issues concerning coal's lack of fungibility and market transparency, TVA does not currently maintain a VaR calculation.

#### Other TVA Commodity Transactions

TVA currently holds SO<sub>2</sub> options for future years. SO<sub>2</sub> emission credits will be used for TVA's fossil fleet and are not subject to market trading activities. The number of options from outside sources held is not material and the estimated VaR for future years is less than \$1 million. The market risk is not material as of September 30, 2002.

TVA purchases fuel oil as a substitute fuel source for TVA's gas turbine fleet. TVA's hedge against market risk for fuel oil is use of natural gas and is captured in the natural gas VaR. The TVA fossil fuels group monitors the spread between fuel oil and natural gas for hedging purposes. During 2002, natural gas had a significant advantage over fuel oil. Therefore, TVA's fuel oil position was not materially affected by market risk.

TVA has no merchant capacity assets or transactions which expose TVA to market risk. TVA does have long-term transactions, the energy supplied under which will serve native load requirements (see note 9 — *Commitments — Power Purchase Obligations*). The market risk associated with the structure of these transactions is captured in the VaR estimates above.

#### Mark-to-Market Valuation

Sensitivity analyses are performed on a daily and weekly basis to determine the market price impact to the energy portfolio when the market price moves beyond TVA's projections.

TVA also monitors the MTM fair value of energy assets in future years. MTM accounting reports contracts at their "fair value," the value a willing third party would pay for the particular contract at the time a valuation is made. These transactions include, but are not limited to, native systems load contracts, energy forwards, energy options or other energy derivative instruments for unit specific generation units. Due to the public service nature of its business, TVA historically values its resource positions for the year ahead.

When available, quoted market prices are used to record a contract's fair value. However, market values for energy trading contracts may not be readily determinable because the duration of the contracts exceeds the liquid activity in a particular market. If no active trading market exists for a commodity, holders of these contracts must calculate fair value using pricing models based on contracts with similar terms and risks. As of September 30, 2002, TVA's forward position on a MTM basis for all energy assets for all hours are as follows:

Source of Fair Value	 2003
(in millions)	
Owned Assets	_
Actively Quoted	_
Prices provided by external sources	\$ 3,901
Modeled	_
Total	\$ 3,901
Average tenor of portfolio	 1 year

Note that prices quoted by external sources reflect independent broker quotations and publicly posted prices on electronic media such as IntercontinentalExchange.

Based on September 30, 2002 closing prices, the MTM value of TVA's energy portfolio for calendar 2003 is \$3.9 billion as shown in the chart above. The fair value calculation determines a profit or loss for each source of fair value, e.g. load, based on market prices. For example, instead of using accrual accounting to calculate load revenue, the MTM calculation compares the load revenue from selling the generation to customers to the load revenue from selling the generation into the market. The difference is the Mark-to-Market value. Since TVA is almost completely hedged, only a small portion of power is bought and sold in the market so the market price has little impact on TVA margins.

#### **Hedging Activities**

With respect to hedging activities, TVA risk management policies provide for the use of derivative financial instruments to manage financial exposures but prohibit the use of these instruments for speculative or trading purposes. Prior to October 1, 2000, TVA accounted for hedging activities using the deferral method, and gains and losses were recognized in the financial statements when the related hedged transaction occurred. During 2001, TVA adopted SFAS No. 133, Accounting for Derivative Instruments and Hedging Activities, as amended by SFAS No. 138, Accounting for Certain Derivative Instruments and Certain Hedging Activities. Derivative contracts to which TVA is a party that are covered by these standards include various purchase power option contracts, certain fuel supply and power purchase agreements, and certain currency and interest rate swap agreements.

# Cash Flow Hedges Included in Accumulated Other Comprehensive Loss on the Balance Sheet September 30, 2002 (in millions)

	Accumulated Other Comprehensive Loss	Portion Expected to Be Reclassified to Earnings During the Next 12 Months	Maximum Term
Interest Rate	\$ (19)	_	5 years
Foreign Currency	(131)	_	29 years
Total	<u>\$(150</u> )		

In summary, based on TVA's overall market risk exposure position and risk controls, management does not anticipate a materially adverse effect on TVA's financial position or results of operations as a result of market fluctuations and market risk.

#### Credit Risk

Credit risk is the exposure to economic loss that would occur as a result of a counterparty's nonperformance of its contractual obligations.

The majority of TVA's credit risk is limited to trade accounts receivable from delivered power sales to municipal and cooperative distributors, all located in the seven-state Tennessee Valley region. To a lesser extent, TVA is exposed to credit risk from industries and federal agencies directly served and from exchange power arrangements with a small number of investor-owned regional utilities related to either delivered power or the replacement of open positions of longer-term purchased power or fuel agreements.

Where exposed to credit risk, TVA analyzes the counterparty's financial condition prior to entering into an agreement, establishes credit limits, monitors the appropriateness of those limits on an ongoing basis and employs credit mitigation measures, such as collateral or prepayment arrangements and master purchase and sale agreements to mitigate credit risk.

The table below summarizes TVA's counterparty credit risk exposure as of September 30, 2002:

# Counterparty Credit Risk Exposure (in millions)

#### **Trade Accounts Receivable:**

Municipalities & Cooperative Distributors	
Investment Grade	\$392
Internally Rated — Investment Grade	130
Noninvestment Grade	0
Industries & Federal Agencies Directly Served	
Investment Grade	26
Noninvestment Grade	46
Internally Rated — Investment Grade	18
Internally Rated — Noninvestment Grade	6
Exchange Power Arrangements	
Investment Grade	4
Noninvestment Grade	1
Internally Rated — Investment Grade	0
Internally Rated — Noninvestment Grade	1
Subtotal	624
Other Accounts Receivable:	
Miscellaneous Accounts	44
Provision for Uncollectible Accounts.	(13)
Subtotal	31
Total	\$655

TVA has concentrations of accounts receivable from four municipal customers that represented 32 percent of total accounts receivable as of September 30, 2002.

#### Rating Triggers

As of September 30, 2002, TVA was a party to three swap contracts and five power purchase agreements that contained rating triggers. TVA's primary triggers in its power purchase agreements are based on the Edison Electric Institute ("EEI") standard contract agreement. Under most of the rating triggers, the amount of collateral that TVA will have to post under certain circumstances will increase if TVA's rated bonds are downgraded. The requirement to post collateral under any of these contracts, if triggered, would not have a material effect on TVA's financial condition.

# Interest Rate and Foreign Currency Risk

TVA manages its daily cash needs through issuance of Discount Notes and other short-term borrowings. These borrowings expose TVA to fluctuations in short-term interest rates. TVA is not exposed to changes in interest rates on most of its long-term debt until such debt matures and may be refinanced at the then-applicable rates. An interest rate swap is used to hedge TVA's exposure related to its inflation-indexed accreting principal bonds, and currency swap contracts are used as hedges for foreign currency denominated debt issues (see note 5 — Foreign Currency and Interest Rate Swaps). Based on TVA's overall interest rate exposure at September 30, 2002, including derivative and other interest rate sensitive instruments, a near-term one percentage point change in interest rates would not have had a material impact on TVA's financial position or results of operations.

# **Equity Price Risk**

See "Management's Discussion and Analysis of Financial Condition and Result of Operations" — "Critical Accounting Policies" — "Nuclear Decommissioning Costs," note 1 — Decommissioning Costs and note 9 — Contingencies — Decommissioning Costs.

#### **Forward Contracts**

TVA enters into electricity forward contracts for the sole purpose of limiting or otherwise hedging its economic risks directly associated with meeting its power supply obligations in the Tennessee Valley region. During 2002, TVA supplied approximately 6 percent of system requirements with power purchased under electricity forward contracts. These contracts qualify for normal purchase and normal sale accounting under SFAS No. 133, as interpreted by DIG Issue C15 (see "Management's Discussion and Analysis of Financial Condition and Result of Operations" — "Critical Accounting Policies" — "Normal Purchases and Normal Sales Special Exemption"). At September 30, 2002, management does not anticipate a materially adverse effect on TVA's financial position or results of operations as a result of market fluctuations.

# FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

# STATEMENTS OF INCOME — POWER PROGRAM For the Years Ended September 30 (in millions)

	2002	2001	2000
Operating revenues			
Sales of electricity			
Municipalities and cooperatives	\$5,856	\$ 5,908	\$5,676
Industries directly served	732	659	626
Federal agencies and other	159	330	361
Other revenue	88	102	99
Total operating revenues	6,835	6,999	6,762
Operating expenses			
Fuel and purchased power	1,925	1,989	1,962
Operating and maintenance	1,840	1,660	1,443
Depreciation and amortization	1,027	1,312	1,185
Tax-equivalents	328	315	308
Accelerated amortization (note 1)	66	230	121
Total operating expenses	5,186	5,506	5,019
Operating income	1,649	1,493	1,743
Other income, net	7	248	17
Income before interest expense and losses on plant cancellation and impairment of assets	1,656	1,741	1,760
Interest expense			
Interest on debt	1,468	1,601	1,695
Amortization of debt discount, issue, and reacquisition costs, net	22	87	94
Allowance for funds used during construction	(61)	(55)	(53)
Net interest expense	1,429	1,633	1,736
Income before losses on plant cancellation and impairment of assets	227	108	24
Loss on impairment of assets/plant cancellation (notes 1 and 2)	(154)	(3,419)	
Net income (loss)	\$ 73	<u>\$(3,311)</u>	\$ 24
Pro forma net income (loss) assuming accounting changes are applied		<u></u>	
retroactively (note 13)	\$ 144	\$(3,293)	\$ 67

# BALANCE SHEETS At September 30 (in millions)

	Power I	Program	All Pr	ograms	
	2002 2001 2002		2002	2001	
ASSETS					
Current assets					
Cash and cash equivalents.  Accounts receivable	\$ 397 655	\$ 339 720	\$ 400 655	\$ 343 720	
Inventories at average cost and other Fuel	173	170	173	170	
Other	305	272	305	272	
Total current assets	1,530	1,501	1,533	1,505	
Property, plant, and equipment					
Completed plant	31,207	30,467	32,219	31,485	
Less accumulated depreciation	(11,162)	(10,344)	(11,469)	(10,647)	
Net completed plant	20,045	20,123	20,750	20,838	
Construction in progress	1,040	923	1,040	923	
Deferred nuclear generating units	4,113	4,110	4,113	4,110	
Nuclear fuel and capital leases	481	487	481	487	
Total property, plant, and equipment	25,679	25,643	26,384	26,358	
Investment funds	659	725	659	725	
Deferred charges and other assets					
Loans and other long-term receivables	138	124	161	149	
Debt issue and reacquisition costs	193	140	193	140	
Other deferred charges	1,959	1,566	1,959	1,566	
Total deferred charges and other assets	2,290	1,830	2,313	1,855	
Total assets	\$ 30,158	\$ 29,699	\$ 30,889	\$ 30,443	
LIABILITIES AND PROPRIETARY O	CAPITAL				
Current liabilities					
Accounts payable	\$ 700	\$ 710	\$ 702	\$ 715	
Accrued liabilities	220	235	220	235	
Accrued interest	397	389	397	389	
Short-term debt	3,492	3,016	3,492	3,016	
Current maturities of long-term debt		1,984		1,984	
Total current liabilities	4,809	6,334	4,811	6,339	
Other liabilities	3,304	2,806	3,304	2,806	
Long-term debt					
Public bonds	21,763	20,375	21,763	20,375	
Unamortized discount and other adjustments	(405)	(524)	(405)	(524)	
Total long-term debt	21,358	19,851	21,358	19,851	
Commitments and Contingencies (note 9)					
Proprietary capital					
Appropriation investment	488	508	4,843	4,863	
Retained earnings	349	306	349	306	
Accumulated other comprehensive loss	(150)	(106)	(150)		
Accumulated net expense of nonpower programs			(3,626)	(3,616)	
Total proprietary capital	687	708	1,416	1,447	
Total liabilities and proprietary capital	\$ 30,158	\$ 29,699	\$ 30,889	\$ 30,443	

# STATEMENTS OF CASH FLOWS For the Years Ended September 30 (in millions)

		Po	Power Program			All Programs				
	2	002	2001		2000		2002	2001	2	2000
Cash flows from operating activities										
Net power income (loss)	\$	73	\$(3,311)	9	\$ 24	\$	73	\$(3,311)	\$	24
Net expense of nonpower programs	,	_	—	,	_	,	(10)	(32)	•	(28)
Items not requiring (providing) cash							, ,	` /		` /
Depreciation and amortization		1,084	1,471		1,289		1,093	1,482		1,299
Accelerated amortization		66	230		121		66	230		121
Allowance for funds used during										
construction		(61)	(55)		(53)		(61)	(55)		(53)
Nuclear fuel amortization		142	158		177		142	158		177
Loss on impairment of assets/plant										
cancellation		154	3,419		_		154	3,419		_
Other, net		(16)	(45)		25		(16)	(33)		25
Changes in current assets and liabilities										
Accounts receivable		66	(42)		42		66	(42)		42
Inventories and other		(49)	(60)		19		(49)	(60)		19
Accounts payable and accrued liabilities		(3)	234		61		(5)	226		42
Accrued interest		7	(49)		(26)		7	(49)		(26)
Other		(116)	(36)	_	(95)	_	(116)	(36)		(95)
Net cash provided by operating activities		1,347	1,914		1,584		1,344	1,897		1,547
Cash flows from investing activities										
Construction expenditures	(	1,231)	(1,015)		(867)	(	1,230)	(1,015)		(867)
Allowance for funds used during	(	1,231)	(1,013)		(007)	,	1,230)	(1,013)		(007)
construction		61	55		53		61	55		53
Nuclear fuel		(146)	(94)		(184)		(146)	(94)		(184)
Other, net		(30)	(137)		(37)		(29)	(129)		(38)
Net cash used in investing activities	(	1,346)	(1,191)	_	(1,035)	(	(1,344)	(1,183)	(	1,036)
Cash flows from financing activities										
Long-term debt										
Issues		2,120	2,708		2,250		2,120	2,708		2,250
Redemptions and repurchases		2,720)	(5,069)		(2,944)	(	2,720)	(5,069)		2,944)
Short-term borrowings, net		476	1,742		292	`	476	1,742		292
Proceeds from combustion turbine leasing,		., .	-,. :-					-,. :-		
net		289	(29)		300		289	(29)		300
Financing costs, net		(58)	(29)		(148)		(58)	(29)		(148)
Other, net										(6)
Payments to U.S. Treasury		(50)	(55)		(54)		(50)	(55)		(54)
Net cash provided by/(used in) financing				-						
activities		57	(732)		(304)		57	(732)		(310)
				_		_				
Net change in cash and cash equivalents		58	(9)		245		57	(18)		201
Cash and cash equivalents at beginning of period		320	210		102		2/12	261		160
•	<u></u>	339	348	-	103	φ.	343	361	Φ.	160
Cash and cash equivalents at end of period	\$	397	\$ 339	1	348	\$	400	\$ 343	\$	361

# STATEMENTS OF CHANGES IN PROPRIETARY CAPITAL — POWER PROGRAM For the Years Ended September 30 (in millions)

	2	2002	2001	2000
Retained earnings reinvested at beginning of period	\$	306	\$ 3,652	\$3,662
Net income (loss)		73	(3,311)	24
Return on appropriation investment		(30)	(35)	(34)
Retained earnings reinvested at end of period		349	306	3,652
Accumulated other comprehensive loss		(150)	(106)	_
Appropriation investment at beginning of period		508	528	548
Return of appropriation investment.	_	(20)	(20)	(20)
Appropriation investment at end of period	_	488	508	528
Proprietary capital at end of period	\$	687	\$ 708	\$4,180

The accompanying notes are an integral part of these financial statements.

# STATEMENTS OF CHANGES IN PROPRIETARY CAPITAL — NONPOWER PROGRAMS For the Years Ended September 30 (in millions)

	2002	2001	2000
Proprietary capital at beginning of period	\$739	\$771	\$860
Net expense	(10)	(32)	(28)
Transfers to other federal agencies (note 10)	_	_	(56)
Other, net			(5)
Proprietary capital at end of period	\$729	\$739	\$771

The accompanying notes are an integral part of these financial statements.

# STATEMENTS OF COMPREHENSIVE INCOME (LOSS) — POWER PROGRAM For the Years Ended September 30 (in millions)

		2002	2001	2000
Net power income (loss)				
Accumulated other comprehensive loss	_	(150)	(106)	
Comprehensive (loss) income	\$	(77)	<u>\$(3,417</u> )	\$24

The accompanying notes are an integral part of these financial statements.

# STATEMENTS OF NET EXPENSE AND COMPREHENSIVE INCOME (LOSS) — NONPOWER PROGRAMS

For the Years Ended September 30 (in millions)

	2002	2001	2000	
Water and Land Stewardship	\$(10)	\$(32)	\$(26)	
Economic Development			(2)	
Net expense and comprehensive loss (note 10)	<u>\$(10</u> )	<u>\$(32</u> )	<u>\$(28)</u>	

#### NOTES TO FINANCIAL STATEMENTS

#### 1. Summary of Significant Accounting Policies

General

TVA is a wholly owned corporate agency and instrumentality of the United States. It was established by the TVA Act with the objective of developing the resources of the Tennessee Valley region in order to strengthen the regional and national economy and the national defense by providing: (1) an ample supply of power within the region, (2) navigable channels and flood control for the Tennessee River System, and (3) agricultural and industrial development and improved forestry in the region. TVA carries out these regional and national responsibilities in a service area that centers on Tennessee and includes parts of Alabama, Georgia, Kentucky, Mississippi, North Carolina and Virginia.

TVA's operations have historically been divided into two types of activities, the power program and the nonpower programs. Substantially all TVA revenues and assets are attributable to the power program. The power program has historically been separate and distinct from the nonpower programs and is required to be self-supporting from power revenues and proceeds from power program financings. The power program receives no congressional appropriations and is required to make annual payments to the U.S. Treasury in repayment of, and as a return on, the government's appropriation investment in TVA power facilities. Until 2000, most of the funding for TVA's nonpower programs had been provided by congressional appropriations. These programs are now funded largely with power funds. Certain nonpower activities are also funded by various revenues and user fees. See note 10 for a discussion related to future funding of TVA's nonpower programs.

Power rates are established by the TVA Board of Directors as authorized by the TVA Act. The TVA Act requires TVA to charge rates for power that, among other things, will produce gross revenues sufficient to provide funds for operation, maintenance, and administration of its power system; payments to states and counties in lieu of taxes; and debt service on outstanding indebtedness. Rates set by the Board are not subject to review or approval by any state or federal regulatory body. In a future restructured electric power industry, it is possible, however, that the ability of the Board to set TVA's rates as specified in the TVA Act could be adversely affected by legislative changes or by competitive pressures.

Five municipal customers, which accounted for an aggregate 27 percent of total power sales for 2002, purchase power from TVA under long-term contracts that require 5 to 10 years' notice to terminate.

TVA prepares its financial statements in conformity with generally accepted accounting principles accepted in the United States of America applied on a consistent basis and, in some cases, TVA's financial statements reflect amounts based on the best estimates and judgment of management.

Fiscal Year

Unless otherwise indicated, years (2002, 2001, etc.) refer to TVA's fiscal years ended September 30.

Cost-based Regulation

As a regulated entity, TVA is subject to the provisions of Statement of Financial Standards ("SFAS") No. 71, Accounting for the Effects of Certain Types of Regulation. Accordingly, TVA records certain assets and liabilities resulting from the effects of the ratemaking process that would not be recorded under generally accepted accounting principles for nonregulated entities. Currently, the electric utility industry is predominantly regulated on a basis designed to recover the cost of providing electric power to its customers. If cost-based regulation were to be discontinued in the industry for any reason, profits could be reduced and utilities might be required to reduce their asset balances to reflect a market basis less than cost. Discontinuance of cost-based regulation would also require affected utilities to write-off their associated regulatory assets (see note 9 — Contingencies — Cost-based Regulation).

#### Revenue

Revenues from power sales are recorded as power is delivered to customers. TVA accrues estimated unbilled revenues for power sales provided to customers for the period of time from the end of the billing cycle to month's end (see note 13).

Off-system sales are presented in the accompanying Statements of Income — Power Program as a component of Sales of electricity — Federal agencies and other.

# Cash and Cash Equivalents

Cash and cash equivalents include the cash available in commercial bank accounts and U.S. Treasury accounts, as well as short-term securities held for the primary purpose of general liquidity. Such securities mature within three months from the date of acquisition.

#### *Inventories*

Coal, oil, limestone, tire-derived fuel inventories and materials and supplies inventories are valued using an average unit cost. A new average cost is computed after each transaction and issues are priced at the latest moving weighted average unit cost.

Inventories of natural gas (at the Egan storage facility) are relatively minor. Inventory is valued at the weighted average cost of gas, which is recalculated monthly.

#### Property, Plant and Equipment, and Depreciation

Additions to plant are recorded at cost, which includes direct and indirect costs and an allowance for funds used during construction. The cost of current repairs and minor replacements is charged to operating expense. Nuclear fuel is valued at the lower of cost or market using the average cost method for raw materials and the specific identification method for nuclear fuel in reactor. Amortization of nuclear fuel is calculated on a units-of-production basis and is included in fuel expense. The TVA Act requires TVA's Board of Directors to allocate the cost of completed multipurpose projects between the power and nonpower programs, subject to the approval of the President of the United States. The original cost of property retired, together with removal costs less salvage value, is charged to accumulated depreciation. Depreciation is generally computed on a straight-line basis over the estimated service lives of the various classes of assets. Depreciation expense expressed as a percentage of the average annual depreciable completed plant was 3.33 percent for 2002, 3.28 percent for 2001 and 3.27 percent for 2000. Depreciation rates (percent) by asset class are as follows:

Asset Class	2002	2001	2000
Nuclear	3.34	3.32	3.30
Coal-fired	3.53	3.52	3.53
Hydro	1.79	1.79	1.77
Combustion Turbine	4.30	4.21	3.55
Transmission	2.56	2.43	2.44
Other	6.31	5.67	6.12

3000

# Decommissioning Costs

TVA recognizes as incurred all obligations related to closure and removal of its nuclear units. Earnings from decommissioning investments, amortization of the decommissioning regulatory asset and interest expense on the decommissioning liability are deferred (see note 9 — Contingencies — Decommissioning Costs). TVA is currently evaluating the nature and scope of its decommissioning policy as it relates to all electric plant. The evaluation will be used to determine the need for recognition of additional asset retirement obligations as described in the recently issued SFAS No. 143, Accounting for Obligations Associated with Retirement of Long-Lived Assets. SFAS No. 143 will be effective for TVA in 2003.

## Allowance for Funds Used during Construction

TVA capitalizes an allowance for funds used during construction. The allowance is applicable to construction in progress, excluding deferred nuclear generating units.

# Other Deferred Charges

Other deferred charges primarily include regulatory assets capitalized under the provisions of SFAS No. 71, Accounting for the Effects of Certain Types of Regulation.

Regulatory Assets. At September 30, 2002 and 2001, other deferred charges included total unamortized regulatory assets of \$1,452 million and \$439 million, respectively, which for both years represent certain charges related to the closure and removal of nuclear units (see note 1 — Decommissioning Costs). The 2002 balance also includes certain costs associated with TVA's September 30, 2002 minimum pension liability, as the Board has determined that such costs will be recovered through future revenues in compliance with the TVA Act. At September 30, 2000, the unamortized balance of regulatory assets of \$372 million consisted of \$228 million, representing a transition obligation for certain postemployment benefits, and \$144 million, representing certain charges related to the closure and removal of nuclear units (see note 1 — Decommissioning Costs). The \$228 million transition obligation for certain postemployment benefits was fully amortized during 2001.

At Septer	nber 30
2002	2001
·	
\$ 556	\$439
896	
\$1,452	<u>\$439</u>
	\$ 556 896

Accelerated Amortization. Annual provisions for amortization of deferred charges are adjusted as necessary in order to achieve certain earnings levels. Such earnings levels are set forth in resolutions adopted annually by the TVA Board of Directors in connection with the rate review process. The targeted earnings levels are based on the requirements of the TVA Act and the Basic TVA Power Bond Resolution (see note 6 — Borrowing Authority). Such adjustments may result in either contraction or extension of the estimated amortization periods. The amortization of such assets is principally computed on a straight-line basis, over periods ranging from 3 to 15 years. As a result of surplus earnings levels in 2002, 2001 and 2000, TVA accelerated amortization of certain regulatory assets by \$66 million, \$230 million and \$121 million, respectively.

#### Nuclear Fuel

TVA's investment in the fuel used in the Sequoyah, Watts Bar and Browns Ferry units is being amortized and accounted for as a component of fuel expense.

Nuclear Refueling Outage Costs. Nuclear refueling outage maintenance costs are deferred and amortized on a straight-line basis over the estimated period until the next refueling outage. The amounts of deferred outage costs at September 30, 2002, 2001 and 2000 were \$85 million, \$57 million and \$73 million, respectively.

#### Investment Funds

Investment funds consist primarily of trust funds designated to fund nuclear decommissioning requirements and debt securities held-to-maturity (see note 9 — Contingencies — Decommissioning Costs). Decommissioning funds are invested in portfolios of securities generally designed to earn returns in line with overall equity market performance. These investments are classified according to SFAS No. 115, Accounting for Certain Investments in Debt and Equity Securities (see note 7 — Investment Funds).

## Debt Issue and Reacquisition Costs

Debt issue and reacquisition expenses, call premiums and other related costs are deferred and amortized (accreted) on a pooled straight-line basis over the weighted average life of TVA's debt portfolio. The unamortized balances of such debt issue and reacquisition costs at September 30, 2002 and 2001 were \$193 million and \$140 million, respectively.

TVA has incurred premiums related to certain advanced refundings and also received and paid premiums in connection with the monetization of certain call provisions. In accordance with regulatory practices, TVA defers and amortizes such premiums on a pooled straight-line basis over the weighted average life of its public debt portfolio. In 2001, TVA charged the remaining deferred cost of \$789 million against earnings (see note 1 — *Impairment of Assets*).

### Tax Equivalents

The TVA Act requires TVA to make payments to states and local governments where the power operations of the corporation are conducted and in which TVA has acquired properties previously subject to state and local taxation. The amount is 5 percent of gross receipts from the prior year's sale of power, excluding sales to other federal agencies and off-system sales with other utilities, with a provision for minimum payments under certain circumstances.

#### Plant Cancellation

Due to changes in the market forecast, TVA elected during 2002 not to complete a gas-fired combined-cycle plant that would have provided 510 MW of power in 2004. Accumulated costs of the project totaled approximately \$154 million, which TVA recognized as a loss on plant cancellation.

#### Impairment of Assets

During 2001, TVA identified certain assets for which the estimated future cash flows provided through future rates were likely to be less than recorded book values. Accordingly, TVA reduced the carrying amount of these assets by a total of \$3,419 million, of which \$2,220 million was attributable to deferred nuclear generating units, \$789 million was attributable to deferred debt refinancing costs, and \$410 million was attributable to plant held for future use. The ultimate disposition of these assets is unaffected by the asset value reductions (see note 1 — *Debt Issue and Reacquisition Costs*, and notes 2 and 3) in accordance with SFAS No. 71. This nonrecurring charge will have no effect on TVA's statutory obligation to set rates at levels necessary to produce revenues sufficient to pay the service on its debt and other expenses specified in the TVA Act.

#### Insurance

TVA is primarily self-insured for property loss, workers' compensation, general liability, and automotive liability. TVA is also self-insured for health-care claims for eligible active and retired employees not covered by Medicare. Consulting actuaries assist TVA in determining certain liabilities for self-insured claims. TVA maintains nuclear liability insurance and nuclear property, decommissioning and decontamination insurance with an outside party (see note 9 — *Contingencies* — *Nuclear Insurance*).

# Impact of New Accounting Standards

Effective October 1, 2000, TVA adopted SFAS No. 133, Accounting for Derivative Instruments and Hedging Activities, as amended by SFAS No. 138, Accounting for Certain Derivative Instruments and Certain Hedging Activities, which requires that certain derivative instruments be recorded on the balance sheet as either an asset or a liability measured at fair value. Changes in the fair value of derivatives are recognized in either net income or other comprehensive income, depending on the designated purpose of the derivative. For 2002 and 2001, accumulated other comprehensive loss includes mark-to-market swap valuation adjustments of \$150 million and \$106 million, respectively.

In June 2001, the Financial Accounting Standards Board ("FASB") issued SFAS No. 143, Accounting for Asset Retirement Obligations, which requires that the fair value of a liability for an asset retirement obligation be recognized in the period in which it is incurred if a reasonable estimate of fair value can be made. The associated asset retirement costs are capitalized as part of the carrying amount of the long-lived asset. The statement is effective for financial statements issued for fiscal years beginning after June 15, 2002. The effect of TVA's adoption of SFAS No. 143 on October 1, 2002, included a cumulative effect charge to income of \$178 million, a corresponding additional long-term liability of \$717 million, an increase in assets of \$745 million and related accumulated depreciation of \$206 million (see note 13).

In October 2001, the FASB issued SFAS No. 144, Accounting for the Impairment or Disposal of Long-Lived Assets, which replaces SFAS No. 121, Accounting for the Impairment of Long-Lived Assets and for Long-Lived Assets to Be Disposed Of. The statement addresses financial accounting and reporting for the impairment or disposal of long-lived assets. It also developed one accounting model for long-lived assets to be disposed of by sale, based on the framework established in SFAS No. 121, and addressed significant implementation issues. SFAS No. 144 requires that those long-lived assets be measured at the lower of the carrying amount or fair value less cost to sell, whether reported in continuing operations or in discontinued operations. The provisions of SFAS No. 144 are effective for financial statements issued for fiscal years beginning after December 15, 2001, and, generally, are to be applied prospectively. At the present time, TVA is unable to determine whether the implementation of this standard will be material to its results of operations or financial position.

The purpose of Emerging Issues Task Force ("EITF") Issue 02-3, Issues Related to Accounting for Contracts Involved in Energy Trading and Risk Management Activities, is to codify and reconcile the Task Force consensuses on previously issued EITF Issues No. 98-10, Accounting for Contracts Involved in Energy Trading and Risk Management Activities, and No. 00-17, Measuring the Fair Value of Energy-Related Contracts in Applying Issue No. 98-10, and EITF Abstracts, Topic No. D-105, Accounting in Consolidation for Energy Trading Contracts between Affiliated Entities When the Activities of One but Not Both Affiliates Are within the Scope of Issue No. 98-10. These EITF Issues and Abstracts address various aspects of the accounting for contracts involved in energy trading and risk management activities. At a special October 25, 2002 meeting, the Task Force reached a consensus to rescind EITF Issue No. 98-10, the impact of which is to preclude mark-to-market accounting for all energy trading contracts not within the scope of SFAS No. 133, Accounting for Derivative Instruments and Hedging Activities. The Task Force also reached consensus that gains and losses on derivative instruments within the scope of SFAS No. 133 should be shown net in the income statement if the derivative instruments are held for trading purposes. The consensuses reached effectively supercede the consensuses reached on this Issue at the June 19-20, 2002 EITF meeting. The consensus regarding the rescission of Issue 98-10 is applicable for fiscal periods beginning after December 15, 2002. Energy trading contracts not within the scope of SFAS No. 133 purchased after October 25, 2002, but prior to the implementation of the consensus are not permitted to apply mark-to-market accounting. The adoption of EITF Issue 02-3 will have no impact on TVA's current operations.

# Management Estimates

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the related amounts of revenues and expenses during the reporting period. Actual results could differ from these estimates.

#### Other

Certain reclassifications have been made to the 2001 financial statements to conform to the 2002 presentation.

## 2. Nuclear Power Program

The nuclear power program at September 30, 2002, consists of nine units — five operating, three deferred and one inoperative — at four locations, with investments in property, plant and equipment as follows and in the status indicated:

	Operating Units	Installed Capacity (Megawatts)		in Progress	Deferred	Fuel <u>Investment</u>
Browns Ferry	2	2,380	\$ 2,607	\$ 58	\$ —	\$175
Sequoyah	2	2,442	1,769	115	_	86
Watts Bar	1	1,270	5,907	8	_	51
Bellefonte	_	_	_	_	4,113	
Raw Materials	=					7
Total	5	6,092	\$10,283	\$181	\$4,113	\$319

<sup>\*</sup> Browns Ferry Unit 1, an inoperative unit, is discussed below.

Browns Ferry Unit 1 was taken off-line in 1985 for modifications and improvements and will continue to remain in an inoperative status until recovered. In May 2002, the TVA Board of Directors initiated activities for the return of Unit 1 to service in order to meet long-term power requirements. The decision was made upon completion of the Detailed Scoping, Estimating and Planning project and the Final Supplemental Environmental Impact Statement, which demonstrate that Unit 1 can be returned to safe operation in a controlled manner and that operating the unit will have no significant, adverse impacts on the environment. TVA has determined that restarting Unit 1 is the best alternative currently available among the mix of generation options. It is anticipated the Unit 1 recovery project will add approximately 1,280 megawatts of generation at a cost of approximately \$1.8 billion and will take five years to complete. It is anticipated that when Unit 1 returns to service, additional generation will help lower the average cost of power and provide additional cash flow for accelerated debt reduction. The undepreciated cost of Unit 1 of \$46 million is included in net completed plant and is being depreciated as part of the recoverable cost of the plant over the remaining license period.

TVA has three units in deferred status. In 1988, TVA suspended construction activities on Watts Bar Unit 2, and the unit is currently in lay-up. Bellefonte Units 1 and 2 were deferred in 1988 and 1985, respectively. Estimated 2003 expenditures for the three deferred units are limited to lay-up, maintenance and ensuring that options remain viable.

While future decisions on TVA's deferred units will ultimately impact the method of cost recovery, the TVA Board determined as of the end of 2001 that the value of some of its existing assets was not appropriate in the competitive marketplace. Certain assets, Bellefonte Units 1 and 2 and Watts Bar Unit 2, were identified as assets where the estimated future values were less than recorded book values. Consequently, in 2001 TVA revalued these assets downward by \$2,220 million and recognized an impairment loss. The Board will establish rate adjustments and operating policies to ensure full recovery of the remaining cost of the Bellefonte units and compliance with the requirements of the TVA Act (see note 1 — *Impairment of Assets*).

## 3. Completed Plant — Power Program

Completed plant of the power program consisted of the following at September 30 after a downward revaluation adjustment during 2001 of \$410 million to plant held for future use (see note 1 — *Impairment of Assets*):

		2002		2001		
(in millions)	Cost	Accumulated Depreciation	Net	Cost	Accumulated Depreciation	Net
Coal-fired	\$ 8,579	\$ 4,117	\$ 4,462	\$ 8,324	\$ 3,877	\$ 4,447
Combustion turbine	1,151	292	859	837	251	586
Nuclear	14,778	4,495	10,283	14,747	4,025	10,722
Transmission	3,847	1,284	2,563	3,672	1,211	2,461
Hydro	1,665	570	1,095	1,623	556	1,067
Other	1,187	404	783	1,264	424	840
Total	\$31,207	\$11,162	\$20,045	\$30,467	\$10,344	\$20,123

#### 4. Proprietary Capital

Appropriation Investment — Power Program

The TVA Act requires TVA to make annual payments to the U.S. Treasury from net power proceeds as a return on the appropriations investment in the power system and as a repayment of that investment. The payments required by the TVA Act may be deferred under certain circumstances for not more than two years. TVA paid \$20 million each year for 2002, 2001 and 2000 as a repayment of the appropriation investment. In addition, TVA paid the U.S. Treasury \$30 million in 2002, \$35 million in 2001 and \$34 million in 2000 as a return on the appropriation investment. The return is based on the appropriation investment as of the beginning of the year and on the computed average interest rate payable by the U.S. Treasury on its total marketable public obligations as of the same date (5.82 percent, 6.63 percent, and 6.34 percent at September 30, 2001, 2000, and 1999, respectively). Cumulative repayments and return on investment paid by TVA to the U.S. Treasury exceed \$3.4 billion, on the government's appropriation investment of \$1.4 billion, approximately \$955 million of which TVA has repaid.

#### Accumulated Other Comprehensive Loss

SFAS No. 130, *Reporting Comprehensive Income*, requires the disclosure of comprehensive income to reflect changes in capital that result from transactions and economic events from nonowner sources. The amounts included in other comprehensive loss were \$150 million for 2002, \$106 million for 2001, and \$0 for 2000. The \$150 million loss in 2002 and the \$106 million loss for 2001 are due to market valuation adjustments for certain derivative instruments (see note 1 — *Impact of New Accounting Standards* and note 5).

## Total Other Comprehensive Income (Loss) Activity

(in millions)		
Accumulated other comprehensive income, September 30, 2000	\$	0
Interest rate swap		5
Foreign currency swaps	2	26
Electricity purchase options	2	20
Cumulative effect of adoption of SFAS No. 133 at October 1, 2000	5	51
Changes in fair value:		
Interest rate swap	(3	34)
Foreign currency swaps	(10	03)
Electricity purchase options	(2	20)
Accumulated other comprehensive loss, September 30, 2001	(10	06)
Changes in fair value:		
Interest rate swap	1	10
Foreign currency swaps	(5	<u>54</u> )
Accumulated other comprehensive loss, September 30, 2002	\$ (15	50)

#### 5. Risk Management Activities and Derivative Transactions

TVA has established a Risk Management Committee, which is charged with the responsibility of reviewing and approving controls and procedures for TVA-wide risk management activities, including the oversight of models and assumptions used to measure risk, the review of counterparty exposure limits and the establishment of formal procedures regarding the use of financial hedging instruments.

TVA is exposed to market risks, including changes in interest rates, foreign currency exchange rates and volatility of certain commodity and equity market prices. To manage the volatility attributable to these exposures, TVA has entered into various nontrading derivative transactions, principally an interest rate swap agreement, foreign currency swap contracts and option contracts.

TVA is exposed to losses in the event of counterparties' nonperformance and accordingly has established controls to determine the creditworthiness of counterparties in order to mitigate exposure to credit risk.

With respect to hedging activities, TVA risk management policies provide for the use of derivative financial instruments to manage financial exposures but prohibit the use of these instruments for speculative or trading purposes. Prior to October 1, 2000, TVA accounted for hedging activities using the deferral method, and gains and losses were recognized in the financial statements when the related hedged transaction occurred. During 2001, TVA adopted SFAS No. 133, Accounting for Derivative Instruments and Hedging Activities. See further discussion related to TVA's adoption of SFAS No. 133 at note 1 — Impact of New Accounting Standards.

In accordance with SFAS No. 133, certain interest rate and foreign currency swap contracts were marked-to-market and resulted in losses of \$44 million for 2002 and \$106 million for 2001. Since such contracts represent cash flow hedges of certain commodity and debt transactions, the losses have been recognized in accumulated other comprehensive loss. Because of the highly effective nature of its hedging transactions, TVA was not required to recognize losses in the Statements of Income. If any loss/(gain) were to be incurred as a result of the early termination of an interest rate swap contract, any resulting charge/(income) would be amortized over the remaining life of the associated bond as a component of interest expense.

# Commodity Contracts

TVA enters into contracts that hedge cash flow exposures to market fluctuations in the price and delivery of certain commodities. TVA expects to take or make delivery, as appropriate, under these forward contracts. Accordingly, these contracts qualify for normal purchase and normal sale accounting under SFAS No. 133,

as interpreted by the Derivative Implementation Group ("DIG"). DIG Issue C15 describes the criteria that must be met in order for such contracts to qualify for the use of normal purchase and normal sale accounting.

Gains and losses on cash flow hedges are deferred in other comprehensive income and recognized as adjustments to the carrying amount of the items hedged. Deferral of the gains and losses continues until the items hedged are recognized in income. Gains and losses on derivatives not qualifying for hedge accounting are deferred in accordance with SFAS No. 71.

#### Foreign Currency and Interest Rate Swaps

During 1996, TVA entered into a currency swap contract as a hedge for a foreign currency denominated debt transaction. TVA issued DM1.5 billion of bonds and entered into a currency swap to hedge fluctuations in the DM exchange rate. TVA also entered into currency swap contracts during 2001 and 1999 as hedges for sterling-denominated debt transactions in which TVA issued £250 million and £200 million of bonds, respectively. Any gains or losses on the debt instruments due to the foreign currency transactions are offset by losses or gains on the swap contracts. At September 30, 2002 and 2001, the currency transactions resulted in net translation gains of \$220 million and \$322 million, respectively, which are included in the account "unamortized discount and other adjustments." However, the net translation gains were offset by corresponding losses on the swap contracts, which are recorded as a deferred liability. Additionally, in 1997 TVA issued \$300 million of inflation-indexed accreting principal bonds. The 10-year bonds have a fixed coupon rate that is paid on the inflation-adjusted principal amount. TVA hedged its inflation exposure under the securities through a receive-floating, pay-fixed interest rate swap agreement.

# Mark-to-Market of TVA Derivatives at September 30

	2002 Balance Asset/(Liability)	2001 Balance	2002 Notional	Year of Expiration
(in millions)				
Interest Rate Swap	\$ 22	\$ 8	USD300 million	2007
Currency Swaps:				
Deutschemark	(328)	(358)	DM1.5 billion	2006
Sterling	(35)	(40)	GBP200 million	2021
Sterling	13	_	GBP250 million	2032
Coal Contracts — Volume Options	1	275	118 million tons	2007

#### 6. Debt

# Borrowing Authority

The TVA Act authorizes TVA to issue bonds, notes, and other evidences of indebtedness up to a total of \$30 billion outstanding at any one time. TVA must meet certain financial tests that are contained in the TVA Act and the Basic TVA Power Bond Resolution. Debt service on these obligations, which is payable solely from TVA's net power proceeds, has precedence over the payment to the U.S. Treasury (see note 4—Appropriation Investment—Power Program).

## Short-Term Debt

The weighted average rates applicable to TVA short-term debt outstanding in the public market as of September 30, 2002, 2001 and 2000, were 1.74 percent, 2.90 percent and 6.53 percent, respectively. During 2002, 2001 and 2000, the maximum outstanding balances of short-term borrowings held by the public were (in millions) \$3,497, \$3,459 and \$3,943, respectively. For these same years the average amounts (and weighted average interest rates) of short-term borrowings were approximately (in millions) \$2,290 (1.95 percent), \$1,994 (4.90 percent) and \$2,628 (5.94 percent), respectively.

## Put and Call Options

Bond issues of \$4.5 billion held by the public are redeemable in whole or in part, at TVA's option, on call dates ranging from the present to July 2020 and at call prices ranging from 100 percent to 106 percent of the principal amount. Additionally, TVA has bond issues of \$3.2 billion held by the public that are redeemable in whole or in part at the option of the respective bondholders, as follows: one bond issue totaling \$936 million, which matures in 2012, is redeemable in 2004 by the bondholders; a second issue totaling \$121 million, which matures in April 2036, is redeemable in 2006 at the option of the bondholders; a third issue totaling \$1.5 billion, which matures in April 2036, is redeemable in 2006 at the option of the bondholders; and a fourth bond issue totaling \$600 million which matures December 2016, is redeemable in 2007 by the bondholders. Each of these issues is reported in the debt schedule with maturity dates corresponding to the earliest redemption dates. Thirty-six additional issues totaling \$1.3 billion, with maturity dates ranging from 2005 to 2030, include a provision for a right of redemption upon the death of a beneficial owner in certain specified circumstances.

Additionally, TVA has two issues of Putable Automatic Rate Reset Securities ("PARRS") outstanding. After a fixed period of five years, the coupon rate on the PARRS may be reset downward under certain market conditions. Investors have the option to redeem the bonds at par if and when the interest rate is reset. One PARRS issue totals \$575 million, matures in June 2028 and has its first potential reset date in June 2003. The second issue of PARRS totals \$525 million, matures in May 2029 and has its first potential reset date in May 2004.

#### Debt Outstanding

Debt outstanding at September 30, 2002 and 2001 consisted of the following:

	2002	2001	
	(in millions)		
Short-term debt			
Discount notes (net of discount)	\$ 3,492	\$ 3,016	
Current maturities of long-term debt — 5.00% to 7.14%	<u> </u>	1,984	
Total short-term debt	3,492	5,000	
Long-term debt			
Maturing in 2004 — 4.75% to 6.79%	2,336	1,400	
Maturing in 2005 — 6.375% to 7.15%	2,065	2,065	
Maturing in 2006 — 5.25% to 7.125%	2,621	2,670	
Maturing in 2007 — 3.50% to 6.643%	1,051	336	
Maturing in 2008 through 2045 — 4.375% to 8.25%	13,690	13,904	
Total long-term debt	21,763(1)	20,375(1)	
Total indebtedness	\$25,255	\$25,375	

<sup>(1)</sup> Excludes net translation gains from currency transactions of \$220 million and \$322 million at September 30, 2002 and 2001, respectively, which are included in the account "unamortized discount and other adjustments."

## Interest and Capital Costs

During 2002, 2001 and 2000 cash paid for interest on outstanding indebtedness (net of amount capitalized) was \$1,414 million, \$1,471 million and \$1,669 million, respectively. In addition to paying interest on outstanding indebtedness, TVA is required by the TVA Act to make annual payments to the U.S. Treasury. The annual Treasury payments represent a repayment of the government's appropriation investment, along with a return on the appropriation investment (see note 4 — Appropriation Investment — Power Program).

#### 7. Fair Value of Financial Instruments

TVA uses the methods and assumptions described below to estimate the fair value of each significant class of financial instrument. The fair market value of the financial instruments held at September 30, 2002, may not be representative of the actual gains or losses that will be recorded when these instruments mature or if they are called or presented for early redemption.

The estimated values of TVA's financial instruments at September 30 are as follows:

	Car	002 rying lount	1	002 Fair nount	Ca	001 rrying nount	1	2001 Fair nount
(in millions)								
Cash and cash equivalents	\$	400	\$	400	\$	343	\$	343
Investment funds		659		659		725		725
Loans and other long-term receivables		161		161		149		149
Short-term debt, net of discount	3	3,492		3,492		3,016		3,016
Long-term debt, net of discount	21	,358	2.	3,767	19	9,851	2.	3,139
Other financing obligations		559		559		271		271

## Cash and Cash Equivalents and Short-Term Debt

Because of the short-term maturity of these instruments, the carrying amount approximates fair value.

#### Investment Funds

Information on investments by major type at September 30 are as follows:

	2002	2001
(in millions)		<u> </u>
Equity securities held as trading	\$503	\$600
Debt securities held-to-maturity		
Joint ventures	7	6
	\$659	<u>\$725</u>

These investments were primarily classified as trading securities and held-to-maturity securities. Gains and losses on trading securities are recognized in current earnings and subsequently reclassified to a regulatory asset account in accordance with TVA's decommissioning accounting policy. The fund had unrealized losses of \$97 million in 2002, unrealized losses of \$233 million in 2001 and unrealized gains of \$109 million in 2000. Held-to-maturity securities, purchased during September, approximate market value and are accounted for at amortized cost.

# Loans and Other Long-Term Receivables

Fair values for these homogeneous categories of loans and receivables are estimated by determining the present value of future cash flows using a discounted rate equal to lending rates for similar loans made to borrowers with similar credit ratings and for the same remaining maturities. The carrying amount approximates fair value.

# Long-Term Debt

Fair value of long-term debt traded in the public market is determined by multiplying the par value of the bonds by the market price nearest the balance sheet date. At September 30, 2002, the carrying amount of long-term debt was \$21,358 million compared with a fair value of \$23,767 million, and at September 30, 2001, the carrying amount of long-term debt was \$19,851 million compared with a fair value of \$23,139 million.

#### Other Financing Obligations

In 2002 and 2000, TVA received approximately \$320 million and \$300 million, respectively, in proceeds by entering into lease-leaseback transactions for 16 new peaking combustion turbine units. Due to the nature of the transactions, the carrying amounts of the obligations and fair market values are equal. At September 30, 2002 and 2001, the total balances of the obligations were \$559 million and \$271 million, respectively.

Due to TVA's continuing involvement in the operation and maintenance of the units and its control over the distribution of power produced by the facilities during the leaseback term, TVA accounted for the respective lease proceeds of \$320 million and \$300 million as financing obligations as required in accordance with SFAS No. 66, *Accounting for Sales of Real Estate*, and SFAS No. 98, *Accounting for Leases*. Accordingly, the outstanding financing obligations of \$559 million in 2002 and \$271 million in 2001 are included in Current Liabilities (\$16 million and \$6 million, respectively) and Other Liabilities (\$543 million and \$265 million, respectively) in TVA's 2002 and 2001 year-end Balance Sheets.

#### 8. Benefit Plans

Pension Plan

TVA has a defined benefit plan for most full-time employees that provides two benefit structures: the Original Benefit Structure and the Cash Balance Benefit Structure. The plan is controlled and administered by a legal entity separate from TVA, the TVA Retirement System ("TVARS"), which is governed by its own independent board of directors. The plan assets are primarily stocks and bonds. TVA contributes to the plan such amounts as are agreed upon by the TVA and TVARS boards of directors. No TVA contribution is legally required when the plan's assets are sufficient to meet its accrued liabilities, as determined by an independent outside actuary.

The pension benefit for a member participating in the Original Benefit Structure is based on the member's years of creditable service, average base pay for the highest three consecutive years, and the pension rate for the member's age and years of service, less a Social Security offset.

The pension benefit for a member participating in the Cash Balance Benefit Structure is based on credits accumulated in the member's account and the member's age. A member's account receives credits each pay period equal to 6.0 percent of his or her straight-time earnings. The account also increases at an interest rate equal to the change in the Consumer Price Index ("CPI") plus 3.0 percent, with the provision that the rate may not be less than 6.0 percent nor more than 10.0 percent. The actual changes in the CPI for 2002 and 2001 were 3.1 percent and 3.2 percent, which resulted in interest rates of 6.1 percent and 6.2 percent, respectively.

TVARS also maintains a defined contribution plan, a 401(k) plan, to which TVA makes matching contributions of 25 cents on the dollar (up to 1.5 percent of pay) for members participating in the Original Benefit Structure and of 75 cents on the dollar (up to 4.5 percent of pay) for members participating in the Cash Balance Benefit Structure.

Net pension income is determined using assumptions as of the beginning of each year. Funded status is determined using assumptions as of the end of each year. The valuations performed at the end of 2001 were based on actuarial assumptions that were consistent for all of TVA's benefit plans. For 2002, TVA recognized pension income of about \$40 million, postretirement benefit expense of \$19 million, and workers compensation expense of approximately \$64 million.

Effective with the September 30, 2002 measurement date for funded status, the discount rate was reduced from 7.50 percent to 7.05 percent and the cost of living rate was reduced from 3.0 percent to 2.3 percent to reflect current market and demographic conditions. Additionally, TVA modified its assumption related to mortality based on results of an experience study performed during the year and converted from 1994 to 1983 mortality tables. As a result of these changes, the September 30, 2002 projected benefit obligation decreased by nearly \$128 million for the year. The changes in assumptions had no effect on pension income for 2002, 2001 or 2000 but will reduce pension expense for 2003 by approximately \$37 million.

The assumptions utilized to measure net pension income and the projected benefit obligations are as follows:

	2002	2001	2000
Discount rate	7.05	7.5	8.0
Cost of living rate	2.3	3.0	3.0
Expected long-term rate of return	9.0	9.0	10.0
Average increase in compensation	3-8%	3-8%	3-8%

During 2000, plan amendments were effected that enhanced certain pension benefits, resulting in approximately \$250 million in additional pension-plan benefit obligations.

#### Other Postretirement Benefits

TVA sponsors an unfunded postretirement plan that provides for nonvested contributions toward the cost of certain retirees' medical coverage. This plan formerly covered all retirees participating in the TVA medical plan, and TVA's contributions were a flat dollar amount based on the participants' ages and years of service and certain payments toward the plan costs. This plan now operates on a much more limited basis, covering only certain retirees and surviving dependents who do not qualify for TVARS benefits.

During 2000, these postretirement benefits were enhanced to help covered retirees offset the cost of medical coverage, resulting in approximately \$16 million in additional postretirement benefit obligations.

The annual assumed cost trend for covered benefits was 8.5 percent in 2002, decreasing by one-half percent per year to a level of 5.0 percent in 2009 and thereafter. For 2001 and 2000, annual trend rates of 8.5 percent and 9.0 percent, respectively, were assumed. The effect of the change in assumptions of the cost basis was not significant. Increasing/(reducing) the assumed health-care cost trend rates by 1 percent would increase/(reduce) the accumulated postretirement benefit obligation ("APBO") as of September 30, 2002, by \$33 million/(\$33 million) and the aggregated service and interest cost components of net periodic postretirement benefit cost for 2002 by \$2 million/(\$2 million).

The weighted average discount rate used in determining the APBO was 7.05 percent for 2002, 7.5 percent for 2001 and 8.0 percent for 2000. Any net unrecognized gain or loss resulting from experience different from that assumed or from changes in assumptions, and exceeding 10 percent of the APBO, is amortized over the average remaining service period of active plan participants.

The assumptions utilized to measure other post-retirement benefits are as follows:

	2002	2001	2000
Discount rate	7.05	7.5	8.0
Health-care trend rate	8.5	8.5	9.0
Cost of living rate	2.3	3.0	3.0
Assumed ultimate trend rate	5.0	5.0	5.0
Assumed ultimate trend rate to be reached in year	2009	2008	2008

#### Other Postemployment Benefits

Other postemployment benefits include workers' compensation provided to former or inactive employees and their beneficiaries and covered dependents for the period after employment but before retirement. Adoption of SFAS No. 112, *Employers' Accounting for Postemployment Benefits*, in 1995 changed TVA's method of accounting from recognizing costs as benefits are paid to accruing the expected costs of providing these benefits. In connection with the adoption of SFAS No. 112 and related approval by its Board of Directors, TVA recorded the transition obligation as a regulatory asset. The regulatory asset was being amortized over approximately 15 years, whereby the annual expense approximated the expense that would have been recorded on an as-paid basis. In 2000, TVA accelerated amortization of the regulatory asset approximately \$80 million, and in 2001 it accelerated the amortization by \$194 million to complete the write-

off of the regulatory asset. This acceleration was in accordance with TVA's accounting policy as previously described (see note 1 — Other Deferred Charges — Accelerated Amortization).

The components of pension expense and other postretirement benefits expense for the years ended September 30 were:

Change in benefit obligation         senefit obligation at beginning of year         senefit obligation at each of year         senefit obligation at end of year		Pension	Benefits	Other Postretirement Benefits	
Change in benefit obligation           Benefit obligation at beginning of year         \$ 5,958         \$ 5,461         \$ 221         \$ 133           Service cost         87         79         4         2           Interest cost         434         424         16         10           Plan participants' contributions         36         28         51         43           Amendments, including special events         —         —         199         —         —           Actuarial (gain)/loss         (289)         268         4         93           Net transfers (to)/from variable fund/401(k) plan         9         9         —         —           Expenses paid         (4)         (4)         —         —           Benefit obligation at end of year         \$ 5,901         \$ 5,958         \$ 431         \$ 221           Change in plan assets         Term value of plan assets at beginning of year         \$ 5,878         \$ 7,312         \$ —         —           Adjustments         (5)         (1)         —         —         —           Adjustments         (5)         (1)         —         —         —           Alight plan         35         28         5         43<	(in millions)	2002	2001	2002	2001
Benefit obligation at beginning of year         \$ 5,958         \$ 5,461         \$ 221         \$ 133           Service cost         87         79         4         2           Interest cost         434         424         16         10           Plan participants' contributions         36         28         51         43           Amendments, including special events         —         —         199         —           Actuarial (gain)/loss         (289)         268         4         93           Net transfers (to)/from variable fund/401(k) plan         9         9         9         —         —           Expenses paid         (4)         (4)         (4)         (60)         Benefits paid         (330)         (307)         (64)         (60)           Benefit obligation at end of year         \$ 5,901         \$ 5,958         \$ 31         \$ 221           Change in plan assets         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         **         **         **         **         **         **         **         **         **         **         **         **         ** <t< td=""><td></td><td></td><td></td><td></td><td></td></t<>					
Service cost         87         79         4         2           Interest cost         434         424         16         10           Plan participants' contributions         36         28         51         43           Amendments, including special events         —         —         199         —           Actuarial (gain)/loss         (289)         268         4         93           Net transfers (to)/from variable fund/401 (k) plan         9         9         —         —           Expenses paid         (30)         (30)         (30)         (60)           Benefits paid         (330)         (307)         (64)         (60)           Benefit obligation at end of year         \$5,901         \$5,958         \$431         \$221           Change in plan assets         ***		\$ 5.958	\$ 5,461	\$ 221	\$ 133
Plan participants' contributions         36         28         51         43           Amendments, including special events         —         —         199         —           Actuarial (gain)/loss         (289)         268         4         93           Net transfers (to)/from variable fund/401(k) plan         9         9         —         —           Expenses paid         (4)         (4)         —         —           Benefits paid         (330)         (307)         (64)         (60)           Benefit obligation at end of year         \$5,901         \$5,958         \$431         \$221           Change in plan assets           Fair value of plan assets at beginning of year         \$5,878         \$7,312         \$—         \$—           Adjustments         (5)         (1)         —         —           Actual return on plan assets         (496)         (1,159)         —         —           Plan participants' contributions         35         28         51         43           Net transfers (to)/from variable fund/401(k) plan         9         9         —         —           Employer contribution         —         —         1         1         1           Expe		. ,		*	*
Amendments, including special events         —         —         199         —           Actuarial (gain)/loss         (289)         268         4         93           Net transfers (to)/from variable fund/401(k) plan         9         9         —         —           Expenses paid         (300)         (307)         (64)         (60)           Benefit obligation at end of year         \$5,901         \$5,958         \$431         \$221           Change in plan assets         ***	Interest cost	434	424	16	10
Actuarial (gain)/loss         (289)         268         4         93           Net transfers (to)/from variable fund/401(k) plan         9         9         -         -           Expenses paid         (4)         (4)         -         -           Benefits paid         (330)         (307)         (64)         (60)           Benefit obligation at end of year         \$5,901         \$5,958         \$431         \$221           Change in plan assets         ***         **         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         ***         **         ***         ***         **         **         **         **	Plan participants' contributions	36	28	51	43
Net transfers (to)/from variable fund/401(k) plan       9       9       —       —         Expenses paid       (4)       (4)       —       —         Benefit spaid       (330)       (307)       (64)       (60)         Benefit obligation at end of year       \$ 5,901       \$ 5,958       \$ 431       \$ 221         Change in plan assets         Fair value of plan assets at beginning of year       \$ 5,878       \$ 7,312       \$ —       \$ —         Adjustments       (5)       (1)       —       —         Actual return on plan assets       (496)       (1,159)       —       —         Plan participants' contributions       35       28       51       43         Net transfers (to)/from variable fund/401(k) plan       9       9       —       —         Employer contribution       —       —       14       17         Expenses paid       (4)       (4)       —       —         Benefits paid       (330)       (307)       (65)       (60)         Fair value of plan assets at end of year       \$ 5,087       \$ 5,878       \$ —       \$ —         Funded status       \$ (814)       \$ (80)       \$ (431)       \$ (221)	Amendments, including special events	_	_	199	_
Expenses paid         (4)         (4)         —         —           Benefits paid         (330)         (307)         (64)         (60)           Benefit obligation at end of year         \$5,901         \$5,958         \$431         \$221           Change in plan assets           Fair value of plan assets at beginning of year         \$5,878         \$7,312         \$—         \$—           Adjustments         (5)         (1)         —         —           Actual return on plan assets         (5)         (1)         —         —           Actual return on plan assets         (496)         (1,159)         —         —           Plan participants' contributions         35         28         51         43           Net transfers (to)/from variable fund/401(k) plan         9         9         —         —           Employer contribution         —         —         14         17           Expenses paid         (4)         (4)         —         —           Benefits paid         (330)         (307)         (65)         (60)           Fair value of plan assets at end of year         \$5,087         \$5,878         \$—         \$—           Unrecognized net actuarial loss	Actuarial (gain)/loss	(289)	268	4	93
Benefits paid         (330)         (307)         (64)         (60)           Benefit obligation at end of year         \$ 5,901         \$ 5,958         \$ 431         \$ 221           Change in plan assets         Teal realized of plan assets at beginning of year         \$ 5,878         \$ 7,312         \$ —         \$ —           Adjustments         (5)         (1)         —         —         Actual return on plan assets         (496)         (1,159)         —         —           Actual return on plan assets         (496)         (1,159)         —         —           Plan participants' contributions         35         28         51         43           Net transfers (to)/from variable fund/401(k) plan         9         9         —         —         —         14         17         Expenses paid         (4)         (4)         —         —         Benefits paid         (330)         (307)         (65)         (60)         (60)         Fair value of plan assets at end of year         \$ 5,087         \$ 5,878         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ —         \$ — <t< td=""><td>Net transfers (to)/from variable fund/401(k) plan</td><td>9</td><td>9</td><td>_</td><td>_</td></t<>	Net transfers (to)/from variable fund/401(k) plan	9	9	_	_
Benefit obligation at end of year         \$ 5,901         \$ 5,958         \$ 431         \$ 221           Change in plan assets         ***         **         ***         ***         ***         ** <td< td=""><td>Expenses paid</td><td>(4)</td><td>(4)</td><td>_</td><td>_</td></td<>	Expenses paid	(4)	(4)	_	_
Change in plan assets         Fair value of plan assets at beginning of year       \$ 5,878       \$ 7,312       \$ —       \$ —         Adjustments       (5)       (1)       —       —         Actual return on plan assets       (496)       (1,159)       —       —         Plan participants' contributions       35       28       51       43         Net transfers (to)/from variable fund/401(k) plan       9       9       —       —         Employer contribution       —       —       14       17         Expenses paid       (4)       (4)       —       —         Benefits paid       (330)       (307)       (65)       (60)         Fair value of plan assets at end of year       \$ 5,087       \$ 5,878       \$ —       \$ —         Funded status       \$ (814)       \$ (80)       \$ (431)       \$ (221)         Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$ 834       \$ 794       \$ (207)       \$ (202)         Amount recognized in statement of financial position       \$ —       \$ 794       \$ —	Benefits paid	(330)	(307)	(64)	(60)
Fair value of plan assets at beginning of year       \$ 5,878       \$ 7,312       \$ —       A —         Adjustments       (5)       (1)       —       —         Actual return on plan assets       (496)       (1,159)       —       —         Plan participants' contributions       35       28       51       43         Net transfers (to) / from variable fund/401 (k) plan       9       9       —       —         Employer contribution       —       —       14       17         Expenses paid       (4)       (4)       —       —         Benefits paid       (330)       (307)       (65)       (60)         Fair value of plan assets at end of year       \$ 5,087       \$ 5,878       \$ —       \$ —         Funded status       \$ (814)       \$ (80)       \$ (431)       \$ (221)         Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$ 834       794       \$ (207)       \$ (202)         Amount recognized in statement of financial position       \$ —       \$ 794       \$ —       \$ —         Prepaid benefit cost </td <td>Benefit obligation at end of year</td> <td>\$ 5,901</td> <td>\$ 5,958</td> <td>\$ 431</td> <td>\$ 221</td>	Benefit obligation at end of year	\$ 5,901	\$ 5,958	\$ 431	\$ 221
Fair value of plan assets at beginning of year       \$ 5,878       \$ 7,312       \$ —       A —         Adjustments       (5)       (1)       —       —         Actual return on plan assets       (496)       (1,159)       —       —         Plan participants' contributions       35       28       51       43         Net transfers (to) / from variable fund/401 (k) plan       9       9       —       —         Employer contribution       —       —       14       17         Expenses paid       (4)       (4)       —       —         Benefits paid       (330)       (307)       (65)       (60)         Fair value of plan assets at end of year       \$ 5,087       \$ 5,878       \$ —       \$ —         Funded status       \$ (814)       \$ (80)       \$ (431)       \$ (221)         Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$ 834       794       \$ (207)       \$ (202)         Amount recognized in statement of financial position       \$ —       \$ 794       \$ —       \$ —         Prepaid benefit cost </td <td>Change in plan assets</td> <td></td> <td></td> <td></td> <td></td>	Change in plan assets				
Adjustments       (5)       (1)       —       —         Actual return on plan assets       (496)       (1,159)       —       —         Plan participants' contributions       35       28       51       43         Net transfers (to)/from variable fund/401(k) plan       9       9       —       —         Employer contribution       —       —       14       17         Expenses paid       (4)       (4)       —       —         Benefits paid       (330)       (307)       (65)       (60)         Fair value of plan assets at end of year       \$5,087       \$5,878       \$—       \$—         Funded status       \$(814)       \$(80)       \$(431)       \$(221)         Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$       834       \$794       \$(207)       \$(202)         Amount recognized in statement of financial position       \$       \$       794       \$       \$       —         Prepaid benefit cost       \$       \$       794       \$       \$       —	~ .	\$ 5,878	\$ 7,312	\$ —	\$ —
Plan participants' contributions       35       28       51       43         Net transfers (to)/from variable fund/401 (k) plan       9       9       —       —         Employer contribution       —       —       14       17         Expenses paid       (4)       (4)       —       —         Benefits paid       (330)       (307)       (65)       (60)         Fair value of plan assets at end of year       \$5,087       \$5,878       \$       —       \$         Funded status       \$(814)       \$(80)       \$(431)       \$(221)         Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$834       794       \$(207)       \$(202)         Amount recognized in statement of financial position       \$       —       \$       —       \$         Prepaid benefit cost       \$       —       \$       —       \$       —       \$         Accrued benefit liability       (481)       —       —       —       —         Regulatory asset       896       —       —       —       —     <		(5)	(1)	_	_
Net transfers (to)/from variable fund/401(k) plan       9       9       —       —         Employer contribution       —       —       14       17         Expenses paid       (4)       (4)       —       —         Benefits paid       (330)       (307)       (65)       (60)         Fair value of plan assets at end of year       \$ 5,087       \$ 5,878       \$ —       \$ —         Funded status       \$ (814)       \$ (80)       \$ (431)       \$ (221)         Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$ 834       \$ 794       \$ (207)       \$ (202)         Amount recognized in statement of financial position         Prepaid benefit cost       \$ —       \$ 794       \$ —       \$ —         Accrued benefit liability       (481)       —       (207)       (202)         Intangible asset       419       —       —       —         Regulatory asset       896       —       —       —       —	Actual return on plan assets	(496)	(1,159)	_	_
Employer contribution       —       —       —       14       17         Expenses paid       (4)       (4)       —       —         Benefits paid       (330)       (307)       (65)       (60)         Fair value of plan assets at end of year       \$ 5,087       \$ 5,878       \$ —       \$ —         Funded status       \$ (814)       \$ (80)       \$ (431)       \$ (221)         Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$ 834       \$ 794       \$ (207)       \$ (202)         Amount recognized in statement of financial position       Prepaid benefit cost       \$ —       \$ 794       \$ —       \$ —         Accrued benefit liability       (481)       —       (207)       (202)         Intangible asset       419       —       —       —         Regulatory asset       896       —       —       —	Plan participants' contributions	35	28	51	43
Expenses paid       (4)       (4)       -       -         Benefits paid       (330)       (307)       (65)       (60)         Fair value of plan assets at end of year       \$ 5,087       \$ 5,878       \$ -       \$ -         Funded status       \$ (814)       \$ (80)       \$ (431)       \$ (221)         Unrecognized net actuarial loss       \$ 1,229       \$ 418       63       62         Unrecognized prior service cost       \$ 419       \$ 456       161       (43)         Prepaid (accrued) benefit cost       \$ 834       \$ 794       \$ (207)       \$ (202)         Amount recognized in statement of financial position       \$ -       \$ 794       \$ -       \$ -         Prepaid benefit cost       \$ -       \$ 794       \$ -       \$ -         Accrued benefit liability       (481)       -       (207)       (202)         Intangible asset       419       -       -       -         Regulatory asset       896       -       -       -       -	Net transfers (to)/from variable fund/401(k) plan	9	9	_	_
Benefits paid       (330)       (307)       (65)       (60)         Fair value of plan assets at end of year       \$ 5,087       \$ 5,878       \$ —       \$ —         Funded status       \$ (814)       \$ (80)       \$ (431)       \$ (221)         Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$ 834       \$ 794       \$ (207)       \$ (202)         Amount recognized in statement of financial position       Prepaid benefit cost       \$ —       \$ 794       \$ —       \$ —         Accrued benefit liability       (481)       —       (207)       (202)         Intangible asset       419       —       —       —         Regulatory asset       896       —       —       —	Employer contribution	_	_	14	17
Fair value of plan assets at end of year       \$ 5,087       \$ 5,878       \$ —       \$ —         Funded status       \$ (814)       \$ (80)       \$ (431)       \$ (221)         Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$ 834       \$ 794       \$ (207)       \$ (202)         Amount recognized in statement of financial position       \$ —       \$ 794       \$ —       \$ —         Prepaid benefit cost       \$ —       \$ 794       \$ —       \$ —         Accrued benefit liability       (481)       —       (207)       (202)         Intangible asset       419       —       —       —         Regulatory asset       896       —       —       —			(4)	_	_
Funded status       \$ (814)       \$ (80)       \$ (431)       \$ (221)         Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$ 834       794       \$ (207)       \$ (202)         Amount recognized in statement of financial position       \$ -       \$ 794       \$ -       \$ -         Prepaid benefit cost       \$ -       \$ 794       \$ -       \$ -         Accrued benefit liability       (481)       -       (207)       (202)         Intangible asset       419       -       -       -         Regulatory asset       896       -       -       -       -	Benefits paid	(330)	(307)	(65)	(60)
Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$834       794       \$(207)       \$(202)         Amount recognized in statement of financial position       \$ -       \$ 794       \$ -       \$ -         Prepaid benefit cost       \$ -       \$ 794       \$ -       \$ -         Accrued benefit liability       (481)       -       (207)       (202)         Intangible asset       419       -       -       -         Regulatory asset       896       -       -       -       -	Fair value of plan assets at end of year	\$ 5,087	\$ 5,878	<u>\$                                    </u>	<u>\$</u>
Unrecognized net actuarial loss       1,229       418       63       62         Unrecognized prior service cost       419       456       161       (43)         Prepaid (accrued) benefit cost       \$834       794       \$(207)       \$(202)         Amount recognized in statement of financial position       \$ -       \$ 794       \$ -       \$ -         Prepaid benefit cost       \$ -       \$ 794       \$ -       \$ -         Accrued benefit liability       (481)       -       (207)       (202)         Intangible asset       419       -       -       -         Regulatory asset       896       -       -       -       -					<u> </u>
Unrecognized prior service cost         419         456         161         (43)           Prepaid (accrued) benefit cost         \$ 834         \$ 794         \$ (207)         \$ (202)           Amount recognized in statement of financial position         \$ -         \$ 794         \$ -         \$ -           Prepaid benefit cost         \$ (481)         -         (207)         (202)           Intangible asset         419         -         -         -           Regulatory asset         896         -         -         -         -		\$ (814)	\$ (80)	\$(431)	\$(221)
Prepaid (accrued) benefit cost         \$ 834         794         \$(207)         \$(202)           Amount recognized in statement of financial position         \$ -         \$ 794         \$ -         \$ -           Prepaid benefit cost         \$ -         \$ 794         \$ -         \$ -           Accrued benefit liability         (481)         -         (207)         (202)           Intangible asset         419         -         -         -           Regulatory asset         896         -         -         -		1,229	418	63	62
Amount recognized in statement of financial position           Prepaid benefit cost         \$ -         \$ 794         \$ -         \$ -           Accrued benefit liability         (481)         -         (207)         (202)           Intangible asset         419         -         -         -           Regulatory asset         896         -         -         -         -	Unrecognized prior service cost	419	456	161	(43)
Prepaid benefit cost       \$ -       \$ 794 \$ -       \$ -         Accrued benefit liability       (481) -       (207) (202)         Intangible asset       419 -       -       -         Regulatory asset       896 -       -       -       -	Prepaid (accrued) benefit cost	\$ 834	\$ 794	<u>\$(207)</u>	<u>\$(202</u> )
Accrued benefit liability       (481)       — (207) (202)         Intangible asset       419       — — —         Regulatory asset       896       — — —	Amount recognized in statement of financial position				
Intangible asset.       419       —       —         Regulatory asset       896       —       —       —	Prepaid benefit cost	\$ —	\$ 794	\$ —	\$ —
Regulatory asset         896         —         —         —	Accrued benefit liability	(481)	_	(207)	(202)
<u> </u>	Intangible asset		_	_	_
Net amount recognized	Regulatory asset	896			
	Net amount recognized	\$ 834	\$ 794	<u>\$(207</u> )	<u>\$(202</u> )

	Pension Benefits			Other Postretirement Benefits			
(in millions)	2002	2001	2000	2002	2001	2000	
Components of net periodic benefit cost							
Service cost	\$ 87	\$ 78	\$ 76	\$ 4	\$ 2	\$ 5	
Interest cost	434	424	367	16	10	11	
Expected return on plan assets	(597)	(599)	(602)	N/A	N/A	N/A	
Amortization of prior service cost	36	36	24	(4)	(4)	(6)	
Amortization of transition obligation	_	_	_	_	_	_	
Recognized net actuarial (gain)/loss		(39)	(19)	3	(2)		
Net periodic benefit (income)	(40)	(100)	(154)	19	6	10	
Special events							
Total benefit (income)	\$ (40)	<u>\$(100</u> )	<u>\$(154</u> )	\$ 19	\$ 6	\$ 10	

## 9. Commitments and Contingencies

# Commitments

Leases/Leasebacks. Certain property, plant and equipment are leased under agreements with terms ranging from 1 to 30 years. Many of the agreements include purchase options or renewal options that cover substantially all the economic lives of the properties. Obligations under capital lease agreements in effect at September 30, 2002, total \$36 million annually through 2007, and an aggregate of \$121 million thereafter, for a total commitment of \$301 million. Of this amount, \$138 million represents the cost of financing. Obligations under non-cancelable lease agreements in effect at September 30, 2002 total \$4 million for each of 2003 and 2004 and \$3 million for each of 2005-2007. There are no non-cancelable operating lease agreements in effect after that period. TVA also has cancelable lease agreements in effect at September 30, 2002 which total \$2 million for 2003, \$3 million for each of 2004 and 2005, \$2 million for 2006 and \$1 million for each of 2007-2013. Because of the nature of these cancelable lease agreements, they are not included in the commitment table below.

Obligations under combustion turbine lease/leaseback transactions in effect at September 30, 2002, total \$44 million annually for 2003 and 2004, \$46 million for 2005, and \$44 million for 2006 and 2007 and an aggregate of \$640 million thereafter, for a total commitment of \$862 million. Of this amount, \$301 million represents the cost of financing.

Other Obligations. TVA has approximately \$1.7 billion in long-term commitments consisting primarily of construction of generating and emission control assets. Terms of the contracts extend into 2008.

Fuel Purchase Obligations. TVA has approximately \$2.7 billion in long-term fuel purchase commitments, with terms up to seven years, for the purchase and transportation of coal and approximately \$1.1 billion in long-term commitments, with terms of up to 10 years, for the purchase of enriched uranium and fabrication of nuclear fuel assemblies.

Power Purchase Obligations. TVA has an agreement for the purchase of power from a 440-megawatt, lignite-fired electric generating plant that requires TVA to purchase the plant's output for a 30-year period which began in April 2002. Pricing of the contract includes fixed and variable components with estimated power purchases approximating \$3 billion for the remainder of the contract term. TVA also entered into long-term power supply agreements with a generator for supply from a facility that has a current generating capacity of 500 megawatts. These commitments extend through May 2007 with a future obligation for demand charges in the amount of \$136 million. Agreements are in place with respect to five other projects. These five contracts are for durations of 2 to 12 years, the earliest of which began in 2000. Payments for the remainder of the terms of these five contracts are estimated to be approximately \$38 million. Costs under these contracts are included in Fuel and purchased power and expensed as incurred.

Under the Public Utility Regulatory Policies Act of 1978, TVA is obligated to purchase power from qualifying facilities. In 2002, a new facility qualified under this program, and as a result TVA could be required to take up to 800 MW of power during certain on-peak hours from the facility.

The estimated commitments for TVA as of September 30, 2002 are as follows:

	2003	3	2004	2005	2006	2007	Thereafter	Total
(in millions)								
Leases	\$ 4	40	\$ 40	\$ 39	\$ 39	\$ 39	\$ 121	\$ 318
Lease/leaseback transactions	4	14	44	46	44	44	640	862
Power purchase obligations	1.	37	113	136	136	124	2,390	3,036
Other obligations	4	41	379	330	293	215	_	1,658
Fuel purchase obligations	1,5	15	999	641	178	99	374	3,806

Tritium Production Approved. In September 2002, the Nuclear Regulatory Commission ("NRC") issued an amendment to the Watts Bar Nuclear Plant operating license, allowing TVA to irradiate tritium-producing burnable absorber rods at the plant for use by the U.S. Department of Defense. TVA's license amendment permits it to install up to 2,304 of the rods into the Watts Bar reactor and irradiate them for one fuel cycle, which lasts about 18 months. TVA will then remove the irradiated rods for shipment to DOE's tritium-extraction facility at the Savannah River Site near Aiken, South Carolina. TVA expects to begin tritium production at Watts Bar in the fall of 2003. Also in September 2002, the NRC issued an amendment to the Sequoyah Nuclear Plant operating license allowing TVA to produce tritium at the plant. TVA will recover costs associated with the tritium production program, and TVA retains the right to operate the reactors for their primary mission of producing electricity.

#### Contingencies

Nuclear Insurance. The Price-Anderson Act sets forth an indemnification and limitation of liability plan for the U.S. nuclear industry. All NRC licensees, including TVA, maintain nuclear liability insurance in the amount of \$200 million for each plant with an operating license. The second level of financial protection required is the industry's retrospective assessment plan, using deferred premium charges. The maximum amount of the deferred premium for each nuclear incident is approximately \$88 million per reactor, but not more than \$10 million per reactor may be charged in any one year for each incident. TVA could be required to pay a maximum of \$528 million per nuclear incident on the basis of its six licensed units, but it would have to pay no more than \$60 million per incident in any one year.

TVA carries property and decontamination insurance of \$2.06 billion at each licensed nuclear plant for the cost of stabilizing or shutting down a reactor after an accident. Some of this insurance may require the payment of retrospective premiums of up to a maximum of approximately \$57 million.

Clean Air Developments. Title IV of the Clean Air Act Amendments ("CAAA") of 1990 requires coal-fired generation units to reduce their sulfur dioxide ("SO<sub>2</sub>") and nitrogen oxide ("NO<sub>x</sub>") emissions in two phases in order to control acid rain. Compliance with these requirements has resulted in substantial expenditures for the reduction of emissions at TVA's coal-fired generating plants. Through 2002, TVA has invested approximately \$1 billion in capital improvements for acid rain compliance. TVA estimates it will spend an additional \$85 million from 2003 to 2006 to complete switches to lower sulfur coals for acid rain compliance purposes.

TVA's strategy for complying with the CAAA has included the use of flue gas desulfurization systems, or scrubbers, on two fossil units in addition to existing scrubbers on four other units, and the use of lower-sulfur coal at other fossil units to reduce SO<sub>2</sub> emissions. TVA has completed these scrubbers and is on schedule to complete the changeover to lower-sulfur coal.

 $NO_x$  reductions were required for 58 of TVA's 59 coal-fired units. The only TVA unit for which  $NO_x$  reductions are not required under the CAAA is the Atmospheric Fluidized Bed Unit 10 at TVA's Shawnee Fossil Plant. The  $NO_x$  reductions for the other 58 units were achieved through the installation of low-

nitrogen-oxide burners and/or overfire air at 40 units and boiler optimization on the remaining 18 TVA units. In 1996, TVA selected an early election option for 4 of these 58 units, which allows the 4 units at John Sevier Fossil Plant to be limited to Phase I NO<sub>x</sub> levels through 2007. In 2008, these 4 units will have to meet lower Phase 2 NO<sub>x</sub> levels. For the remaining 54 units, TVA has elected to average NO<sub>x</sub> emissions to meet a 54 unit NO<sub>x</sub> Averaging Plan. This option enables TVA to optimize the cost of NO<sub>x</sub> reductions while fully complying with the CAAA Title IV NO<sub>x</sub> requirements. In addition to its Title IV projects, TVA is in the process of installing selective catalytic reduction systems ("SCRs") or other NO<sub>x</sub> control technology on at least 25 of its coal-fired units. SCRs are state-of-the-art NO<sub>x</sub> pollution technology. This follows up on a commitment TVA made to further reduce NO<sub>x</sub> emissions on its system. Installation of these SCRs will also comply with the State Implementation Plan NO<sub>x</sub> Reduction rule issued by EPA in 1998. Depending on future generation requirements, additional NO<sub>x</sub> controls may be required.

In TVA's continuing efforts to improve air quality in the Tennessee Valley and to comply with the Clean Air Act, TVA plans to design, build and operate five more scrubbers to further reduce SO<sub>2</sub> emissions from 12 of its coal-fired units. Although design of these scrubbers is scheduled to start in 2003, substantial construction activities are not expected to begin until TVA completes its SCR installation program in 2005. Completion of the five scrubbers is expected by 2011.

The Environmental Protection Agency ("EPA") has finalized new, more stringent National Ambient Air Quality Standards for particulate matter and ozone and a rule designed to reduce regional haze. Each of these rule-makings has undergone litigation and the EPA is in the process of developing implementation strategies for the ambient standards and readdressing several provisions of the regional haze rule. These actions may require TVA to make additional reductions of SO<sub>2</sub> emissions beyond those currently planned. TVA anticipates that compliance with the new regulations will be required after 2010. The EPA has also determined that mercury emissions from coal-fired plants should be reduced, and is developing both a rule to reduce mercury and legislative packages that put mercury reductions in a multipollutant plan. Depending on the severity of the mercury reductions required by EPA, TVA could incur additional substantial capital costs for control of mercury.

On February 14, 2002, the Bush administration announced its "Clear Skies Initiative," which outlines legislative requirements for the phased reduction of SO<sub>2</sub>, NO<sub>x</sub> and mercury emissions from utilities during the period from 2008 to 2018. In July of 2002, legislation known as the Clear Skies Act was introduced in Congress. A number of bills have been introduced in Congress that would result in significant decreases in emissions of NO<sub>x</sub>, SO<sub>2</sub> and mercury, as well as carbon dioxide. The timing and content of such legislation remains highly uncertain.

Expenditures related to the Clean Air projects during 2002 and 2001 were approximately \$400 million and \$200 million, respectively. The cost of the SCR strategy, including the 2001 and 2002 expenditures, is now estimated to be \$1.3 billion, and the cost of the planned installation of five scrubbers is estimated to be \$1.3 billion. The total cost of future compliance with NO<sub>x</sub>, SO<sub>2</sub>, mercury and particulate matter requirements, however, cannot reasonably be determined at this time because of the uncertainties surrounding emerging EPA regulations, resultant compliance strategies, potential for the development of new emission control technologies, court litigation, and future amendments to the Clean Air Act. However, total costs through 2020 could exceed \$3 billion, exclusive of the costs of the planned SCRs and scrubbers. These future controls will also apply to any enforcement liability.

The EPA has instituted judicial and administrative actions against a number of utilities in the eastern U.S., including TVA, alleging that they have modified their coal-fired units without complying with new source review ("NSR") requirements. TVA contends EPA's enforcement action is based on a new interpretation of an old rule and that TVA has routinely maintained its power plants to ensure efficient, reliable power generation while complying with all requirements. EPA issued TVA an administrative order directing TVA to put new source controls on 14 of its coal-fired units and to evaluate whether more controls should be installed on other units. TVA has challenged the validity of this order, and the Eleventh Circuit Court of Appeals has stayed the order pending its review. The outcome of this litigation and the EPA proceedings is uncertain.

It is not possible to predict with certainty what impact implementation of EPA's order will have on TVA if TVA's challenge is unsuccessful. If EPA substantially prevails, TVA could be required to incur capital costs in excess of \$3 billion by 2010 to 2012. Any additional controls that TVA could be required to install on units as a result of this matter would, however, also be sufficient to comply with reduction requirements that are planned or anticipated under the other air quality programs for that same time period, which are discussed above. Thus, because of the other environmental program requirements, TVA would, in any event, probably incur a substantial portion of the costs that might result from the EPA enforcement action, although the schedule for the installation of the controls could be somewhat accelerated by the EPA action. TVA fully supports the need to further reduce emissions from coal-fired plants and seeks a resolution that will not put TVA customers and the region at a disadvantage.

The Bush administration has reviewed the energy implications of the EPA's new NSR interpretation and concluded that there is evidence that NSR impedes utilities from increasing the efficiency and performance of existing fossil-fuel generation. TVA has determined that if the EPA's new interpretation becomes law, TVA could lose about 11 percent of the energy capabilities of its coal-fired system within three years through permit limits on use of its units. On November 22, 2002, EPA announced changes to its NSR program intended to address aspects of the program that have deterred companies from implementing projects that would enhance energy efficiency and decrease air pollution. These changes are not anticipated to affect TVA's commitments to emissions control projects discussed above or the NSR litigation.

The National Parks Conservation Association ("NPCA") and the Sierra Club filed cases in federal district courts raising the same NSR allegations at TVA's Bull Run Fossil Plant and Colbert Fossil Plant Unit 5 as were raised in the EPA proceedings. Both cases have been stayed pending a decision from the Eleventh Circuit.

Environmental groups are taking legal action against TVA, as well as against other utilities across the country, for allegedly violating opacity limits applicable to coal-fired plants.

- The Alabama Environmental Council and the Sierra Club filed a lawsuit in federal district court in Florence, Alabama, alleging that TVA violated Clean Air Act opacity limits applicable to Colbert Fossil Plant between July 1, 1997 and June 30, 2002. The groups seek a court order requiring TVA to bring Colbert Fossil Plant into continuous compliance with the opacity limits, which would require TVA to incur substantial costs in addition to the costs TVA is already planning to incur for environmental controls, and to pay civil penalties of up to approximately \$250 million. TVA filed its answer to the lawsuit in November 2002.
- The Sierra Club gave notice in a September 26, 2002, letter that it intends to sue TVA for violating Clean Air Act opacity limits applicable to the John Sevier and Kingston Fossil Plants. The notice claims that TVA violated opacity standards at the two plants from July 1, 1997, to the present. The alleged opacity violations substantially overlap those that were challenged in a lawsuit filed by the National Parks Conservation Association two years ago in federal court in Knoxville, Tennessee. TVA ultimately prevailed in that lawsuit.

Hazardous Substances. The release and cleanup of hazardous substances are regulated under the Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA"). In a manner similar to many other industries and power systems, TVA has generated or used hazardous substances over the years. TVA is aware of hazardous-substance releases at eight off-site areas for which it may have some liability. Under CERCLA, the release and cleanup of hazardous substances are regulated. Liability under CERCLA is generally viewed as joint and several; however, TVA's share of cleanup costs under CERCLA is not expected to have a significant impact on TVA's financial position or results of operations.

Pending Litigation. EPA has issued TVA an administrative order directing TVA to put new source controls on 14 of its units and to evaluate whether more controls should be installed on other units. TVA has challenged the validity of this order. It is not possible to predict with certainty what impact implementation of EPA's order would have on TVA if TVA's challenge is unsuccessful. If EPA substantially prevails, TVA

could be required to incur significant capital costs in order to implement EPA's order (see *Clean Air Developments* for a discussion of this litigation and other Clean Air Act legal proceedings).

On December 28, 2001, Bowater Incorporated and Bowater Newsprint South, Inc. (together, "Bowater") filed a lawsuit against TVA in federal court in Knoxville challenging TVA's charges for Economy Surplus Power ("ESP") and Testing and Restart Power ("TRP") for two Bowater plants. In its complaint, Bowater alleges that in violation of the contract provision which states that TVA will charge ESP and TRP customers based on TVA's actual hourly incremental cost of providing ESP (1) TVA included certain alleged nonincremental costs in the prices for ESP and TRP and (2) when calculating such prices TVA used the cost of providing the most expensive 100 megawatts of ESP sold during a given hour instead of the average cost in that hour of serving the entire ESP load. The complaint also alleges that TVA has been unjustly enriched as a result of these overcharges. The lawsuit seeks, among other things, compensatory damages in excess of \$25 million and interest of more than \$10 million. TVA believes that it will prevail in this lawsuit based on the information presently available.

TVA is a party to various other civil lawsuits and claims that have arisen in the ordinary course of its business. Although the outcome of these other civil lawsuits and claims cannot be predicted with any certainty, TVA believes that their ultimate outcome should not have a material adverse effect on TVA's financial position or results of operations.

Decommissioning Costs. Provision for decommissioning costs of nuclear generating units is based on the estimated cost to dismantle and decontaminate the facilities to meet NRC criteria for license termination. Effective for 1998, TVA changed its method of accounting for nuclear decommissioning costs and related liabilities in order to comply with certain tentative conclusions as reached by the FASB in its project for closure and removal of long-lived assets, as well as certain rate-setting actions.

TVA recognizes as incurred all obligations related to closure and removal of its nuclear units. The liability for closure is measured as the present value of the estimated cash flows required to satisfy the related obligation and discounted at a determined risk-free rate of interest. The charge to recognize the obligation is effected by adjusting the corresponding regulatory asset. Earnings from decommissioning fund investments, amortization expense of the decommissioning regulatory asset and interest expense on the decommissioning liability are deferred in accordance with SFAS No. 71, Accounting for the Effects of Certain Types of Regulation. At September 30, 2002, the present value of the estimated future decommissioning cost of \$891 million was included in other liabilities, and the unamortized regulatory asset of \$556 million was included in deferred charges. The decommissioning cost estimates are based on prompt dismantlement and removal of the plant from service. The actual decommissioning costs may vary from the estimates because of changes in the assumed dates of decommissioning, changes in regulatory requirements, changes in technology and changes in the cost of labor, materials and equipment.

TVA maintains a decommissioning trust fund to provide funding for the decommissioning of nuclear power plants. As of September 30, 2002, the decommissioning trust fund assets totaled approximately \$500 million and were invested in securities selected to achieve a return in line with overall equity market performance. TVA may find it necessary to provide additional decommissioning funding over the next several years if performance of the investment portfolio does not improve over recent years' performance. The need for additional funding could be eliminated if operating license extensions for Browns Ferry Units 1, 2 and 3 are granted by the NRC. TVA plans to submit its application for Browns Ferry license extensions at the end of 2003. NRC has typically taken two years to review such applications, and several nuclear utilities have already received operating license extensions.

Cost-based Regulation. Regulatory assets for TVA total approximately \$1,452 million at September 30, 2002, along with approximately \$4.1 billion of deferred nuclear plant costs. Management cannot predict the potential impact, if any, of the change in the regulatory environment on TVA's future financial position and results of operations. (See note 1 — Regulatory Assets.)

#### 10. Stewardship Responsibilities

During 2002, TVA continued to conduct certain nonpower programs, including managing navigable river channels, providing flood control and overseeing certain recreation facilities. TVA's responsibilities include general stewardship of land, water and wildlife resources.

Historically, nonpower programs were primarily funded with federal appropriations. Certain nonpower program activities have also been funded with user fees and outside services revenues. In October 1997, Congress passed legislation that directed TVA to fund essential stewardship activities related to its management of the Tennessee River system and TVA properties with power funds in the event that there were insufficient appropriations or other available funds to pay for such activities in any year.

Beginning in 2000, Congress stopped providing appropriations to TVA to fund essential stewardship activities. Consequently, during 2000, 2001 and 2002, TVA paid \$71 million, \$72 million and \$83 million, respectively, for essential stewardship activities primarily with power revenues. In addition, administrative jurisdiction over Land Between The Lakes was transferred to the Secretary of Agriculture effective October 1, 1999. As part of the transfer, TVA also assumed responsibility for certain transition expenses associated with the transfer. To date, TVA has paid \$7.3 million of transition expenses with an estimated remaining liability of \$2 million at September 30, 2002. TVA retains responsibility for management of the remaining nonpower assets and settlement of nonpower obligations.

As of September 30, 2000, TVA had transferred \$56 million of property and equipment to the U.S. Forest Service. After this transfer, the completed plant of the nonpower programs consists of multipurpose dams and other plant. At September 30, 2002, the net completed plant balances for multipurpose dams and other plant were \$665 million and \$40 million, respectively. At September 30, 2001, the net completed plant balances for multipurpose dams and other plant were \$673 million and \$43 million, respectively.

#### 11. Unaudited Quarterly Financial Information

A summary of the quarterly results of operations for the years 2002 and 2001 follows. The information has been prepared by TVA's management and is unaudited. It should be read in conjunction with the audited financial statements appearing herein. Results for interim periods may fluctuate as a result of weather conditions, changes in rates and other factors.

	2002				
	First	Second	Third	Fourth	Total
(in millions)					
Operating revenues	\$1,521	\$1,653	\$1,678	\$ 1,983	\$6,835
Income from operations	360	413	412	464	1,649
Income before loss on impairment of assets/plant cancellation	3	61	59	104	227
Net income (loss)	3	(89)	51	108	73
	-		2001		
Operating revenues	\$1,715	\$1,758	\$1,627	\$ 1,899	\$ 6,999
Income from operations	469	303	371	350	1,493
Income before loss on impairment of assets/plant					
cancellation	47	122	(25)	(36)	108
Net income (loss)	47	122	(25)	(3,455)	(3,311)

## 12. Subsequent Events

TVA has received notice from one distributor which terminates its power contract with TVA in October 2007. A second distributor has also given a notice which seeks to so terminate its power contract conditioned upon the availability of transmission service from TVA. During 2001, sales to these two distributors generated approximately one percent of TVA's total revenues. Once a power contract is terminated, the

terminating distributor would have neither the obligation nor the right to take power or obtain transmission from TVA, absent the negotiation of new arrangements.

#### 13. Pro Forma Information

Effective October 1, 2002, the TVA Board of Directors approved a change in the methodology for estimating unbilled revenue from electricity sales. The change was from a method using cumulative generation to a method using generation from the current billing period only as a basis for calculating the unbilled revenue. The impact of this change resulted in an increase in accounts receivable of \$412 with the corresponding gain being deferred at September 30, 2002. In October 2002, the deferred gain was reported as a cumulative effect gain for the change in accounting for unbilled revenue pursuant to a resolution adopted by the TVA Board of Directors.

On October 1, 2002, TVA adopted SFAS No. 143, Accounting for Asset Retirement Obligations, which requires the recognition of a liability and capitalization of the associated asset retirement cost as part of the carrying amount of the long-lived asset for "legal obligations" associated with the retirement of long-lived assets that result from the acquisition, construction, development and/or normal operation of long-lived assets. TVA identified and reviewed all relevant information in the determination of its potential asset retirement obligations ("AROs"). Costs associated with retirement of coal-fired and gas/oil turbine generating plants and ash/waste ponds are being expensed as period costs while costs associated with retirement of nuclear generating plants are being deferred in accordance with SFAS No. 71, Accounting for the Effects of Certain Types of Regulation, based on the funded status of the obligation.

In accordance with SFAS No. 143, TVA calculated the net present value of the obligations as of October 1, 2002, the original and incremental cost of the long-lived assets at the time the assets were originally placed in service, the cumulative effect of depreciation on the adjusted asset base and accretion of the liability from the date of initial operation to the current period. The effect of the adoption included a cumulative effect charge to income of \$178 million, a corresponding additional long-term liability of \$717 million, an increase in assets of \$745 million and related accumulated depreciation of \$206 million.

Pro forma net income amounts, assuming that the changes in accounting described above related to the adoption of SFAS No. 143 and the change in the methodology for estimating unbilled revenue had been applied retroactively, are as follows:

	For the Years Ended September 30			
	2002	2001	2000	
		(in millions)	<u> </u>	
Historical Net Income (Loss)	\$ 73	\$(3,311)	\$ 24	
Accounting Changes:				
Adoption of SFAS No. 143	(10)	(10)	(10)	
Unbilled Revenue	81	28	53	
Pro Forma Net Income (Loss)	\$144	\$(3,293)	\$ 67	

Amounts recorded prior to adoption of SFAS No. 143, which related to nuclear unit decommissioning obligations, and pro forma amounts of TVA's total asset retirement obligations, assuming that SFAS No. 143 had been adopted retroactively, are approximately as follows:

had been adopted retroactively, are approximately as follows:			
	Historical	Pro forma	
	(in mi	illions)	
September 30, 2002	\$891	\$1,607	
September 30, 2001	804	1,521	
September 30, 2000	742	1,440	
October 1, 1999	882	1,363	

### REPORT OF INDEPENDENT ACCOUNTANTS

## To the Board of Directors of the Tennessee Valley Authority

In our opinion, the accompanying balance sheets (power program and all programs) and the related statements of income (power program), changes in proprietary capital (power program and nonpower programs), comprehensive income (power program), net expense and comprehensive income (nonpower programs), and cash flows (power program and all programs) present fairly, in all material respects, the financial position of the power program and all programs of the Tennessee Valley Authority at September 30, 2002 and 2001, and the results of its operations of the power program and nonpower programs and its cash flows of the power program and all programs for each of the three years in the period ended September 30, 2002, in conformity with accounting principles generally accepted in the United States of America. These financial statements are the responsibility of the Tennessee Valley Authority's management; our responsibility is to express an opinion on these financial statements based on our audits. We conducted our audits of these statements in accordance with auditing standards generally accepted in the United States of America and Government Auditing Standards issued by the Comptroller General of the United States, which require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

As discussed in note 13 to the financial statements, effective October 1, 2002, TVA changed the methodology for estimating unbilled revenue from electricity sales and adopted Statement of Financial Accounting Standards No. 143, Accounting for Asset Retirement Obligations.

In accordance with *Government Auditing Standards*, we have also issued our report dated December 19, 2002, on our consideration of the Tennessee Valley Authority's internal control over financial reporting and on our tests of its compliance with certain provisions of laws and regulations for the year ended September 30, 2002. That report is an integral part of an audit performed in accordance with *Government Auditing Standards* and should be read in conjunction with this report in considering the results of our audit.

Pricewaterhouse Coopers LLP

PricewaterhouseCoopers LLP Knoxville, Tennessee December 19, 2002, except for note 13 as to which the date is July 18, 2003

### REPORT OF MANAGEMENT

Management is responsible for the preparation, integrity, and objectivity of the financial statements of the Tennessee Valley Authority as well as all other information contained in the Information Statement. The financial statements have been prepared in conformity with generally accepted accounting principles applied on a consistent basis and, in some cases, reflect amounts based on the best estimates and judgments of management, giving due consideration to materiality. Financial information contained in the Information Statement is consistent with that in the financial statements.

The Tennessee Valley Authority maintains an adequate system of internal controls to provide reasonable assurance that transactions are executed in accordance with management's authorization, that financial statements are prepared in accordance with generally accepted accounting principles, and that the assets of the corporation are properly safeguarded. The system of internal controls is documented, evaluated, and tested on a continuing bases. No internal control system can provide absolute assurance that errors and irregularities will not occur due to the inherent limitations of the effectiveness of internal controls; however, management strives to maintain a balance, recognizing that the cost of such a system should not exceed the benefits derived. No material internal control weaknesses have been reported to management.

PricewaterhouseCoopers LLP was engaged to audit the financial statements of the Tennessee Valley Authority and issue reports thereon. Its audits were conducted in accordance with auditing standards generally accepted in the United States of America and *Government Auditing Standards* issued by the Comptroller General of the United States. Such standards require a review of internal controls and an examination of selected transactions and other procedures sufficient to provide reasonable assurance that the financial statements neither are misleading nor contain material errors. The Report of Independent Accountants does not limit the responsibility of management for information contained in the financial statements and elsewhere in the Information Statement.

David N. Smith

Chief Financial Officer and

Executive Vice President of Financial Services

### REPORT OF INSPECTOR GENERAL

### To The Board of Directors of the Tennessee Valley Authority

The Tennessee Valley Authority contracted with the independent certified public accounting firm of PricewaterhouseCoopers LLP ("PricewaterhouseCoopers") to audit the balance sheets (power program and all programs) as of September 30, 2002 and 2001 and the related statements of income (power program), changes in proprietary capital (power program and nonpower programs), comprehensive income (power program), net expense and comprehensive income (nonpower programs), and cash flows (power program and all programs) for each of the three years in the period ended September 30, 2002. The contract required the audit be done in accordance with generally accepted government auditing standards.

Under the Inspector General Act, the Office of the Inspector General ("OIG") is responsible for taking appropriate steps to assure that any work performed by nonfederal auditors, including PricewaterhouseCoopers, complies with generally accepted government auditing standards. The Chief Financial Officers Act also places responsibilities on the OIG regarding TVA's annual financial statement audit. In keeping with our statutory responsibilities, we reviewed PricewaterhouseCoopers' reports and related audit documentation, interviewed their representatives, and performed such other procedures as we deemed appropriate in the circumstances to provide reasonable assurance that the audit was performed in accordance with generally accepted government auditing standards.

The objective of our review was not intended to enable us to express, and we do not express, an opinion on the Tennessee Valley Authority's financial statements or on management's conclusions about the effectiveness of its system of internal control. PricewaterhouseCoopers is responsible for the auditor's reports dated December 19, 2002, and the conclusions expressed in the reports. However, our review disclosed no instances where PricewaterhouseCoopers did not comply, in all material respects, with generally accepted government auditing standards. Our review was performed in accordance with generally accepted government auditing standards.

Ben R. Wagner

Assistant Inspector General (Audits)

Ben R Wagner

December 30, 2002

# CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

During 2002, there were no changes in or disagreements with TVA's independent auditors on accounting matters of financial disclosure.

### **PART III**

### DIRECTORS AND EXECUTIVE OFFICERS

TVA is administered by a board of directors composed of three persons appointed by the President and confirmed by the Senate. TVA's management structure includes a Management Committee which works with the Board to determine TVA's strategic mission and future direction, as well as an Executive Committee which provides management oversight and ensures that policies of the Board are carried out. The Board and selected officers, their ages, their years of employment with TVA and principal occupations for recent years are as follows:

	Age	Year Appointed	Year Term Expires
Directors			
Glenn L. McCullough, Jr	48	1999	2005
Skila Harris	52	1999	2008
William W. Baxter	49	2001	2011

Mr. McCullough was appointed to the Board in November 1999, and previously served as the mayor of Tupelo, Mississippi, beginning in 1997. Prior to his election as mayor of Tupelo, he was the director of the Mississippi office of the Appalachian Regional Commission. Chairman McCullough also worked in the family business, McCullough Steel Products, for 12 years.

Ms. Harris was appointed to the Board in November 1999. Prior to her current position, she served at DOE as Executive Director of the Secretary of Energy Advisory Board. From 1993 until 1997, she was a Special Assistant to Vice President Gore and Mrs. Gore's Chief of Staff. She came to the White House from Steiner-Liff Iron and Metal Company in Nashville, Tennessee, where she was Vice President for Development and Compliance. Ms. Harris served as a project manager at the U.S. Synthetic Fuels Corporation, and she was with DOE during the Carter Administration. She has also held positions with management and engineering consulting firms specializing in energy-related work.

Mr. Baxter was appointed to the Board in November 2001. Prior to joining the Board, Mr. Baxter was Chairman and Chief Executive Officer of Holston Gases Inc. of Knoxville, Tennessee. Before joining Holston Gases Inc. in 1981, Mr. Baxter was an attorney with Garrett, Coffee, McGee & Baxter in Knoxville. From December 1997 through December 2000, Mr. Baxter was Commissioner of the Department of Economic and Community Development for the State of Tennessee.

	Age	Year Commenced Employment
Executive Officers		
Oswald J. Zeringue*	57	1989
John A. Scalice	55	1989

	Age	Year Commenced Employment
David N. Smith*	58	1995
Maureen H. Dunn*	53	1978
John E. Long, Jr.*	50	1980
Mark O. Medford*	56	1989
Ellen Robinson*	48	2001
D. LeAnne Stribley*	48	1995
John Bradley*	42	2002
Theresa A. Flaim*	53	2002

<sup>\*</sup> Member of Management Committee

Mr. Zeringue was named President and Chief Operating Officer in April 1998. Prior to his current position, he served as Chief Nuclear Officer & Executive Vice President (1997-1998), as Senior Vice President, Nuclear Operations (1993-1997), as Browns Ferry Site Vice President (1989-1993) and as Plant Manager of Palo Verde Nuclear Station, Arizona Public Service Company (1987-1989).

Mr. Scalice was named Chief Nuclear Officer & Executive Vice President, TVA Nuclear in June 1998. Prior to his current position, he served as Acting Chief Nuclear Officer (beginning April 1998), as Senior Vice President of Nuclear Operations (1997-1998), as Watts Bar Site Vice President (1993-1997), as Plant Manager of Browns Ferry Nuclear Plant (1991-1993), as Plant Manager of Watts Bar Nuclear Plant (1989-1991) and as Plant Manager of Shoreham Nuclear Power Station, Long Island Lighting Company (1989).

Mr. Smith was named Chief Financial Officer in January 1995 and additionally was named Executive Vice President, Financial Services, in October 1996. Prior to his current position, he served as Executive Director of Odyssey Financial (1993-1994), as Vice President of Finance of LTV Corporation (1991-1993) and as Assistant Treasurer and Director of Corporate Finance of LTV Corporation (1986-1991).

Ms. Dunn joined TVA as an attorney in May 1978, assumed the position of Assistant General Counsel in September 1986, and assumed the position of Executive Vice President and General Counsel in January 2001.

Mr. Long was named Executive Vice President of Human Resources in October 2000. Prior to his current position, he served as a management appointee to the TVA Retirement System Board since 1992. Mr. Long joined TVA in 1980 as a Personnel Officer in the Engineering Division.

Mr. Medford was named Executive Vice President of Customer Service and Marketing in December 1996. He joined TVA as Vice President and Nuclear Technical Director in 1989. Mr. Medford directs staffs that manage customer accounts, product development and pricing, marketing and economic development. He has more than 26 years of public and private utility experience and he is responsible for relations between TVA and its customers. Before joining TVA, Mr. Medford was manager of nuclear regulatory affairs at Southern California Edison.

Ms. Robinson was named Executive Vice President of Communications and Government Relations in June 2001. She served as senior vice president of communications and government affairs at CNH Global NV in Racine, Wisconsin and before that as vice president of communications and government affairs at Case

Corporation. Ms. Robinson joined Case from Burson-Marsteller in New York, where she was a vice president and a head of the business-to-business marketing unit.

Ms. Stribley was named Executive Vice President of Administration in December 2000. She joined TVA as Vice President of Finance in 1995 and assumed additional responsibilities as Controller in 1997. Before joining TVA, Ms. Stribley was vice president of finance and chief financial officer at Travel Resources Management Group, Inc. Additionally, Ms. Stribley was director of corporate finance at Ohio-based LTV Corporation from 1987 to 1994, and between 1981 to 1987 she worked as assistant treasurer for the Western Company of North America, an offshore-drilling and oil-services corporation.

Mr. Bradley was named Senior Vice President of Economic Development in August 2002. He is responsible for recruitment and retention of capital investment and job creation, business development, technical services and community development. Mr. Bradley served as senior vice president for economic development for the Memphis Regional Chamber of Commerce from 1996 to 2002, and he worked in Memphis Light, Gas & Water's economic development department from 1980 to 1996.

Ms. Flaim was named as Senior Vice President of Strategic Planning and Analysis in June 2002. She is responsible for developing strategies related to the ongoing competitive restructuring of the electric-utility industry. She served for nine years as vice president of strategic planning for Niagara Mohawk. Ms. Flaim worked at the Solar Energy Research Institute and the Los Alamos National Laboratory.

### CONTROLS AND PROCEDURES

TVA's management, including the Chief Financial Officer, and the members of the Board of Directors have conducted an evaluation of the effectiveness of TVA's disclosure controls and procedures during November and December 2002. Based on that evaluation, members of the Board of Directors and the Chief Financial Officer concluded that the disclosure controls and procedures are effective in ensuring that all material information necessary and appropriate for the Original Information Statement has been made known to them in a timely fashion. There have been no significant changes in internal controls, or in factors that could significantly affect internal controls, subsequent to the date the members of the Board of Directors and Chief Financial Officer completed their evaluation.

In 2002, TVA, along with its external auditors, identified no deficiencies in the design and operation of its internal control procedures that were reportable control weaknesses.

# **PART IV**

STATISTICAL & FINANCIAL SUMMARIES

# STATISTICAL & FINANCIAL SUMMARIES For the years ended September 30

	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992
Sales (millions of kWh) (a)  Municipalities and cooperatives	128,600	129,760	125,991	122,880	123,330	114,771	117,035	110,245	108,073	105,566	98,505
Industries directly served	26,478 5,013	23,306 8,355	22,204 11,376	22,885 10,190	18,514 21,293	17,359 27,198	16,599 19,964	16,684 12,356	15,792 13,599	16,196 10,952	16,576 8,970
Total sales	160,091	161,421	159,571	155,955	163,137	159,328	153,598	139,285	137,464	132,714	124,051
Operating revenues (millions of dollars) (a)											
Municipalities and cooperatives.	\$ 5,856	\$ 5,908	\$ 5,676	\$ 5,510	\$ 5,554	\$ 4,811	\$ 4,980	\$ 4,654	\$ 4,582	\$ 4,479	\$ 4,266
Industries directly served	732	659 330	626 361	642 357	523 556	464 561	452 430	460 277	452 441	472 414	472 342
Other	88	102	66	98	96	86	68	82	71	71	71
Total revenues	\$ 6,835	\$ 6,999	\$ 6,762	\$ 6,595	\$ 6,729	\$ 5,934	\$ 5,951	\$ 5,473	\$ 5,546	\$ 5,436	\$ 5,151
Electric revenue per kWh (cents) (b)	4.21	4.27	4.18	4.17	4.07	3.66	3.82	3.87	3.87	3.92	3.97
Winter net dependable generating capacity (megawatts)	,									0	
Hydro (c)	5,660	5,677	5,492	5,492	5,491	5,384	5,298	5,225	5,242	4,885(d) 15,088	4,885 (d) 15 088
Nuclear units in service	5,751	5,715	5,729	5,729	5,620	5,625	5,545	3,342	3,342	3,365	3,361
Combustion turbine	4,643	3,923	2,232	2,232	2,384	2,394	2,268	2,232	2,264	2,284	2,284
Total capacity	31,517	30,365	28,502	28,502	28,498	28,417	28,123	25,831	25,880	25,622	25,618
System peak load (megawatts) — summer	29,052	27,368	29,344	28,295	27,253	26,661	25,376	25,496	23,398	23,878	21,980
System peak load (megawatts) — winter	26,290	27,163	25,940	26,388	23,204	26,670	25,995	24,676	24,723	21,666	21,974
Percent gross generation by fuel source											
Fossil	63%	64%	63%	63%	62%	61%	92%	71%	72%	77%	%69
Hydro	%9	%9	%9	7%	10%	11%	11%	12%	14%	13%	14%
Nuclear	30%	29%	31% NM	30%	28% NM	28% NM	24% N.M.	17% NN	14% N N	10% N	17% NN
Fuel cost per kWh (cents)	27	2	447.7	447.7	7.77.7	7.7.7	747.7	7.17.7	747.7	*****	*****
Fossil	1.39	1.32	1.27	1.28	1.25	1.23	1.23	1.26	1.34	1.27	1.33
Combustion turbine	4.65	6.07	6.22	3.94	4.01	5.22	4.54	3.61	5.45	5.09	8.26
Nuclear (f)	0.41	0.44	0.49	0.51	0.71	0.58	0.56	0.61	1.10	1.09	1.10
Aggregate fuel cost per kWh net thermal generation	1.11	1.08	1.05	1.05	1.10	1.04	1.06	1.14	1.31	1.25	1.29
Fuel data $N=1$ such that $N=$	141 272	146 806	143 224	137 169	139 727	135 736	131 808	118 097	110 643	109 968	105 577
Billion Btu	1,458,367	1,505,504	1,470,452	1,403,110	1,426,151	1,381,837	1,338,157	1,197,295	1,120,868	1,105,395	1,069,725
Fuel expense (millions of dollars)	1,564	1,588	1,504	1,434	1,538	1,406	1,395	1,348	1,450	1,375	1,360
Cost per million Btu (cents)	107.25	105.47	102.29	102.21 10.229	107.81	101.73	104.22	112.61	129.40 10.131	124.42 10.052	127.16

(a) Sales and revenues have been adjusted to include sales to other utilities.

(b) Excludes settlement payment from Department of Energy of \$160 million for the years 1992-1994.

(c) Includes 405 megawatts of capacity from the Corps of Engineers projects on the Cumberland River System.

(d) Reflects expiration of TAPOCO exchange agreement in 1990 — renewed in 1994.

(e) Includes 440 megawatts of capacity from power purchase agreement under which TVA has contracted with Choctaw Generation, L.P., for power from a lignite-fired generation plant in Chester, Mississippi.

(f) TVA changed its method of expensing the interest component of nuclear fuel expense in 1995.

# Independent Accountants

The financial statements of TVA at September 30, 2002 and 2001, and for each of the three fiscal years in the period ended September 30, 2002, appended hereto as part of this Statement, have been audited by PricewaterhouseCoopers LLP, independent accountants, as stated in their report, dated December 19, 2002 except for note 13 as to which the date is July 18, 2003, which report is also appended hereto.

\* \* \* \* \*

Any statements in this Statement involving matters of opinion, regardless of whether expressly so identified, are opinions only and not factual representations. This Statement is not a contract with the purchaser of any Power Bonds, Discount Notes or Other Indebtedness.

This Statement has been approved by duly authorized officers of the Tennessee Valley Authority.

**Tennessee Valley Authority** 

By: /s/ John M. Hoskins

John M. Hoskins Senior Vice President and Treasurer /s/ RANDY TRUSLEY

Randy Trusley
Vice President and Controller

### **CERTIFICATIONS**

- Glenn L. McCullough, Jr., Skila Harris and Bill Baxter, individually certify that:
  - 1. I have reviewed this Information Statement of the Tennessee Valley Authority:
- 2. Based on my knowledge, the information in this Information Statement does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this Information Statement;
- 3. Based on my knowledge, the financial statements, and other financial information included in this Information Statement, fairly present in all material respects the financial condition, results of operations and cash flows of the Tennessee Valley Authority as of, and for, the periods presented in this Information Statement;
- 4. I and the other certifiers are responsible for establishing and maintaining disclosure controls and procedures for the Tennessee Valley Authority and have:
  - a) designed such disclosure controls and procedures to ensure that the financial statements and other financial information relating to the Tennessee Valley Authority are made known to us by others particularly during the period in which this Information Statement is being prepared;
  - b) evaluated the effectiveness of the Tennessee Valley Authority's disclosure controls and procedures as of a date within 90 days prior to the date of this Information Statement (the "Evaluation Date"); and
  - c) presented in this Information Statement our conclusions about the effectiveness of the disclosure controls and procedures based on our evaluation as of the Evaluation Date;
- 5. I and the other certifiers have disclosed, based on our most recent evaluation, to the Tennessee Valley Authority's auditors and the Inspector General of the Tennessee Valley Authority:
  - a) all significant deficiencies in the design or operation of internal controls which could adversely affect the Tennessee Valley Authority's ability to record, process, summarize and report financial data and have identified for the Tennessee Valley Authority's auditors any material weaknesses in internal controls; and
  - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the Tennessee Valley Authority's internal controls; and
- 6. I and the other certifiers have indicated in this Information Statement whether there were significant changes in internal controls or in other factors that could significantly affect internal controls subsequent to the date of our most recent evaluation, including any corrective actions with regard to significant deficiencies and material weaknesses.

Date: January 13, 2003

Glenn L. McCullough, Jr. Chairman

Cullough, Jr. Skila Harris rman Director Bill Baxter Director

Shela Danis

### I, David N. Smith, certify that:

- 1. I have reviewed this Information Statement of the Tennessee Valley Authority;
- 2. Based on my knowledge, the information in this Information Statement does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this Information Statement;
- 3. Based on my knowledge, the financial statements, and other financial information included in this Information Statement, fairly present in all material respects the financial condition, results of operations and cash flows of the Tennessee Valley Authority as of, and for, the periods presented in this Information Statement:
- 4. I and the other certifiers are responsible for establishing and maintaining disclosure controls and procedures for the Tennessee Valley Authority and have:
  - a) designed such disclosure controls and procedures to ensure that the financial statements and other financial information relating to the Tennessee Valley Authority are made known to us by others particularly during the period in which this Information Statement is being prepared;
  - b) evaluated the effectiveness of the Tennessee Valley Authority's disclosure controls and procedures as of a date within 90 days prior to the date of this Information Statement (the "Evaluation Date"); and
  - c) presented in this Information Statement our conclusions about the effectiveness of the disclosure controls and procedures based on our evaluation as of the Evaluation Date;
- 5. I and the other certifiers have disclosed, based on our most recent evaluation, to the Tennessee Valley Authority's auditors and the Inspector General of the Tennessee Valley Authority:
  - a) all significant deficiencies in the design or operation of internal controls which could adversely affect the Tennessee Valley Authority's ability to record, process, summarize and report financial data and have identified for the Tennessee Valley Authority's auditors any material weaknesses in internal controls; and
  - b) any fraud, whether or not material, that involves management or other employees who have a significant role in the Tennessee Valley Authority's internal controls; and
- 6. I and the other certifiers have indicated in this Information Statement whether there were significant changes in internal controls or in other factors that could significantly affect internal controls subsequent to the date of our most recent evaluation, including any corrective actions with regard to significant deficiencies and material weaknesses.

Date: January 13, 2003

David N. Smith
Chief Financial Officer and Executive Vice President of Financial Services

Sant nomit

Glenn L. McCullough, Jr., Skila Harris and Bill Baxter individually certify that:

- 1. I have reviewed the New Information contained on pages 26, 46, 54, 70 and 71 of this Statement.
- 2. Based on my knowledge, such New Information does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this Statement.

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Dated: July 28, 2003

Glenn L. McCullough, Jr.

Chairman

Skila Harris Director Bill Baxter Director

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# I, John M. Hoskins, certify that:

- 1. I have reviewed the New Information contained on pages 26, 46, 54, 70 and 71 of this Statement.
- 2. Based on my knowledge, such New Information does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this Statement.

Dated: July 28, 2003

John M. Hoshim

John M. Hoskins

Senior Vice President and Treasurer