



## Program Summary

### Introduction

The initial phase of the Kingston master plan involved the development of a Program of Requirements describing the 1996 requirements for the Kingston site. This phase commenced with Executive Goal Setting with the Generating Group and Fossil Group during June of 1992. These Goals provided guiding direction for the planning at each Fossil site.

The programming effort, developed at the site level, generated site specific Goals and included a comprehensive review of each organization's future needs, including Generating Group, Customer Group and Resource Group. Reviews with site personnel have confirmed their requirements and agreement has been reached on all areas of the Program.

Programmatic information has been organized into five categories:

**GOALS** describe the client's aspirations for the project.

**FACTS** cover pertinent data and assumptions that are considered as givens for this project.

**CONCEPTS** are qualitative ideas and directives for implementing the Goals.

**NEEDS** are the area requirements established for 1996.

**PROBLEM STATEMENTS** identify the unique and essential planning criteria for the master plan.

The following chapter contains summary level information with detailed information provided in Appendix A. This information provides the basis for the development of the master plan.



## Goals

*The following are the project goals that emerged during the work sessions. These goals establish a direction for the programming and planning process.*



## Corporate Goals

### Function

*People, Activities, Relationships*

To promote **efficiency in utilization**. "What can we do without?"

### Economy

*Initial, Operating Budget, Life Cycle*

To **reduce operating costs** through efficient utilization.

To develop **cost control measures** for proposed facilities.

To develop **accurate cost estimates** at the planning phase.

### Form

*Site, Environment, Quality*

To **clean up TVA's facilities** - begin with public areas.

To **facilitate cultural change** with physical change.

To develop a **consistent TVA image**.

To **foster team pride** with a team environment.

To bring **facilities planning and development** under control.

To change the **visual image of TVA** (less government and more corporate).

### Time

*Past, Present, Future*

To tie **planning and implementation** to the business plans of each TVA family.



## Generating Group Goals

### Function

*People, Activities, Relationships*

To provide facilities that respond to the **employee survey**.

To provide a variable approach to **food service** at generating sites based on population and demand.

To plan for **just-in-time** warehousing and distribution for **standard materials** vs. "unique" spare parts and equipment.

To develop a **family focus** for Livewells at generating sites.

To provide **outdoor recreation** at Livewells.

- Ball fields
- Picnic areas
- Trails

To focus on generating group facilities which are **product related** versus administrative offices.

### Economy

*Initial, Operating Budget, Life Cycle*

To prioritize investment in **customer and plant facilities**.

To minimize **corporate office** expenditures.

To contain **facility expenditures** within current TVA Strategic Plan.

### Form

*Site, Environment, Quality*

To include a **telecommunication plan** with each site master plan.

To locate **Livewells** in a convenient location.

- Remote from power facilities

To provide adequate facilities for **women in the workplace**.

- Restrooms
- Lockers

To use **current corporate standards** for new facilities.

To provide a **flexible approach** to standards for renovations of existing facilities.

To provide **flexibility** in building design to accommodate future organizational needs.

### Time

*Past, Present, Future*

To coordinate **master plan implementation** with Generating Group.

- Operational priorities

To develop a **planning contingency** for dependent care facilities.



## Fossil Power Goals

### Function

*People, Activities, Relationships*

To define the **workflow** and functional relationships on fossil sites.

To provide **feeder process training** for the Fossil Group.

To provide appropriate **food service** at fossil sites

- Lunch Room
- Vending

To provide improvements for Fossil 's **Technical Support Group**

- Existing space is inadequate

To provide **water chemistry labs** at Fossil sites.

To provide **just-in-time training facilities** distributed at each site.

To provide **improvements in operations and maintenance** to minimize stores, shops and warehousing.

To accommodate **women in the workplace** with consistency.

To **safely accommodate visitors on all sites**, and deliver the right message.

### Economy

*Initial, Operating Budget, Life Cycle*

To maintain expenditures within the **annual capital limits** of the Generating Group.

To identify **energy compliance exceptions** based on comprehensive site consumption.

To capitalize on **concurrent operational improvements**, economies of scale and scope.

### Form

*Site, Environment, Quality*

To focus on **internal plant improvements** in office and support areas.

To **consolidate shops** to minimize area and share equipment.

To accommodate the **changing mix of contractor/TVA personnel** through 1993.

To **adapt the training facilities** to individual site conditions, expansion, renovation or stand-alone.

To maintain a **steady compliance rate** on 504 - avoid public actions.

To identify **building system candidates** for upgrade/replacement.

### Time

*Past, Present, Future*

To respond to **long term goals** for each fossil site.

To provide **flexibility** for changing organizational needs.

To coordinate and address plant **staff security** in FY 93.

To prioritize **contractor facilities and site access** for FY 93.

To implement **current plan items** in FY 93.

To place a low priority on **abandoned equipment and energy improvements**.

To consider a **long view planning horizon (50 year)** for waste handling, material production and recycled uses for waste.



## Kingston Site Goals

### Function

*People, Activities, Relationships*

- To improve the **functionality of the office wing.**
- To accommodate the **Harriman coal unloading system.**
- To provide for **outage storage and partner shop areas.**
- To accommodate **new technology changes** for PC networks and replacement of the Prime computer.
- To accommodate **sanitary system upgrades** due to higher population densities.

### Economy

*Initial, Operating Budget, Life Cycle*

### Form

*Site, Environment, Quality*

- To respond to **changes in office staff** with adequate area based on functional needs.
- To integrate **EPRI Instrument Control Center**, including development, test and lab areas.
- To integrate **maintenance facilities** for switchyard and tranformer yard.
- To accommodate **technology and communications support staff.**

### Time

*Past, Present, Future*

- To address the long term plan for **ash disposal.**



## Facts

*The facts documented in this section describe important conditions which will influence the project.*

### Introduction

The Kingston Fossil Plant is located on the Watts Bar Lake, between the Emory and Clinch rivers, in eastern Tennessee. The reservation consists of approximately 1,400 acres including a wildlife reserve zone. The plant was built during 1954-55 and is comprised of the main nine-unit plant with four units producing 175,000 kw and five units producing 200,000 kw.

Coal has been received on-site 100% by rail, and it is anticipated that truck deliveries will begin in the near future. Precipitators and new stacks were added to the site between 1974-1977.



# Regional Location

