

**ATTACHMENT A**

**INTEGRATED  
SCHEDULING  
PROGRAM**

**OVERVIEW**

## Purpose

The proposed Integrated Scheduling Program (ISP) establishes a method for integrated project planning and regulator interface. The tool of the ISP, the Integrated Long-Range Plan, supports long-term planning, resource management, and workscope control.

## Scope

The proposed ISP contains the following scope:

- \* Major, non-routine projects sponsored by Engineering & Plant Betterment (E&PB) that require greater than 1,000 total person-hours, or greater than \$50,000 total cost to complete.
- \* Projects initiated in response to all regulatory agencies (e.g., NRC, EPA, DOE etc.).
- \* Capital and O & M projects.
- \* Future projects as well as existing work items.

## Applicability

This Program applies to both Salem Stations and Hope Creek Station.

## Program Description

The E&PB Integrated Scheduling Policy Statement (Attachment B) contains a description of the major Program elements, including: interfaces (both internal and external), sequence of Project activities, and reporting requirements. Attachment C provides additional information concerning our prioritization methodology, including: process implementation, key motivators, and priority score sheet.

Programmatic highlights, addressing the NRC's Final Policy Statement elements, are listed below:

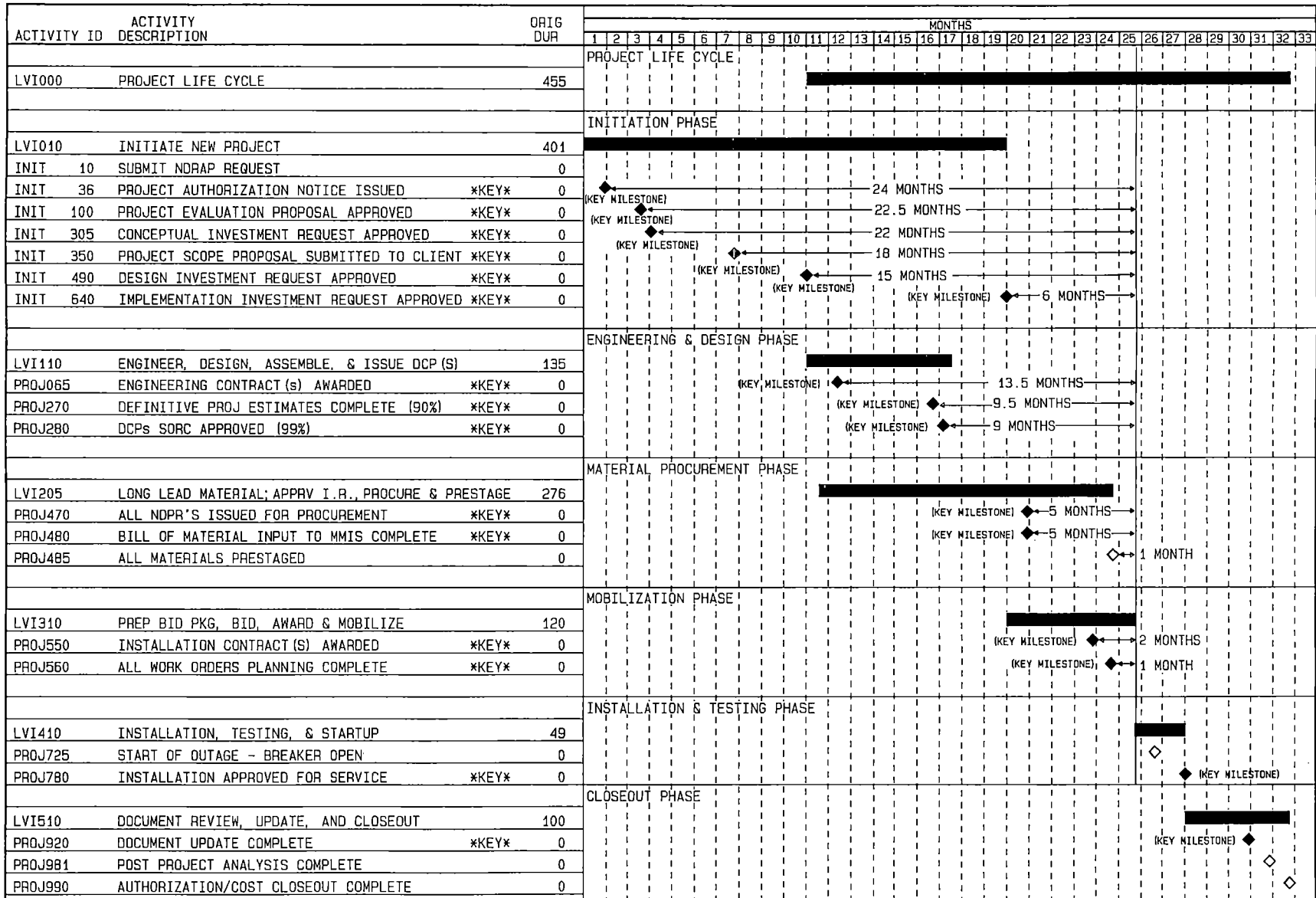
1. PSE&G will not incorporate the ISP into the Facility Operating License (i.e., the Program will not be a license condition).
2. PSE&G anticipates Programmatic changes as our Integrated Scheduling Program matures. PSE&G will appraise the NRC of any significant changes to ensure continued NRC Staff understanding of our practices. However, for those Programmatic changes that meet the criteria specified in the NRC's Final Policy Statement on Integrated Schedules, PSE&G intends to implement the changes prior to NRC review.

3. PSE&G utilizes a categorization scheme that expands upon the NRC's Category 1, 2 and 3. Refer to the following category identifiers and definitions.

<u>E&amp;PB</u> <u>Category</u>	<u>Description</u>	<u>NRC</u> <u>Category</u>
N1	Mandated NRC item - externally imposed completion date.	1
N2	PSE&G commitment to an NRC item - internally imposed completion date.	2
E1	Mandated environmental item - externally imposed due date.	N/A
E2	PSE&G commitment to an environmental agency - internally imposed completion date.	N/A
U1	PSE&G initiative - internally imposed completion date	3
I1	INPO related item - internally imposed completion date	3

4. Completion date changes to N1 categorized items requires prior NRC approval. PSE&G intends to verbally notify the appropriate NRR Project Manager when a change is necessary. A written follow-up describing the change, providing justification, and requesting a new commitment date will be forwarded to the NRC for approval. The ninety (90) day negative consent does not apply to these requested changes.
5. Completion date changes to N2 categorized items do not require NRC pre-approval. PSE&G intends to verbally notify the appropriate NRR Project Manager when a change is necessary and the existing due date is prior to the next semi-annual update. A written description of the change, reason for the change, and new completion date will be included in the next semi-annual update. All other N2 item changes will be addressed exclusively through the semi-annual update.

6. PSE&G intends to forward semi-annual reports to the NRC. These reports will update the previous Capital and O & M worklists to indicate completed projects, new projects, and changes to existing projects. These reports will contain PSE&G initiatives as well as those projects responding to NRC issues, thus providing a more complete picture of the total work scope at Salem and Hope Creek Stations. The ninety (90) day negative consent will apply to these reports except as stated in Item 4 above.
  
7. Short-term NRC response items (e.g., Notices of Violation, LERs) that result in proposed corrective actions falling within the scope of this Program (i.e., >\$50,000 or >1000 person-hours), pose a timing problem. These items do not allow sufficient time for our ISP to properly evaluate a project, and determine the appropriate work scope and schedule (refer to the Generic Project Schedule; Attachment A, Exhibit 1). PSE&G proposes to enter the item into the ISP and provide the NRC with the results of our issue/event assessment within thirty days. Identification of corrective actions and a schedule for completion will be included in the next semi-annual ISP update after Project Evaluation Proposal (PEP) completion.



Activity Classification: COLOR BAR ON RPT  
 ■ USED TO COLOR BARS

Plot Date 20NOV92

Activity Bar/Early Dates  
 Critical Activity  
 Progress Bar  
 Milestone/Flag Activity

PSE&G-ENGINEERING & PLANT BETTERMENT  
 GENERIC PROJECT SCHEDULE - LEVEL I  
 BARCHART SCHEDULE

Sheet 1 of 1

EGPB SCHEDULING DEPARTMENT - D. MCLAUGHLIN X1986

Date	Revision	Checked	Approved
		9/27	

**ATTACHMENT B**

**INTEGRATED  
SCHEDULING  
PROGRAM**

**POLICY STATEMENT**

**PUBLIC SERVICE ELECTRIC & GAS  
ENGINEERING & PLANT BETTERMENT**

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**INTEGRATED SCHEDULING PROGRAM**

**POLICY STATEMENT  
JULY 28, 1992**

Approval: C.W. Gwalt Date: 8/3/92  
Manager - Nuclear Engineering & Project Services

Approval: ~~W.E.~~ F.K. Thomas Date: 8/3/92  
Manager - Licensing & Regulation

Approval: B. Ruffey Date: 8-3-92  
Manager - Nuclear Engineering Projects

Approval: D. S. [Signature] Date: 8-4-92  
Manager - Nuclear Engineering Design

Approval: [Signature] Date: 9/12/92  
GM - Engineering & Plant Betterment

## **PURPOSE**

The purpose of this policy statement is to describe the management process within the Engineering and Plant Betterment Division (E&PB) of the PSE&G Nuclear Department, known as the Integrated Scheduling Program (ISP), which establishes a method for integrated project planning and regulator interface. This program creates a new planning level in E&PB which provides a basis for responding to, and negotiating with, regulators.

This policy statement conveys the E&PB business practice of defining how internally- and externally-initiated workscope is planned and executed considering the needs and limited resources of PSE&G, and defines the relationship of this business practice with the practice of making commitments to regulators.

The policy also defines how the "tool" of the Integrated Scheduling Program, the Integrated Long Range Plan (ILRP), is applied to support long term planning, resource management, and workscope control.

This document serves as a broad policy statement supported by more detailed procedures and practices within E&PB.

## **SCOPE**

This policy statement applies to major, non-routine, capital and O&M projects sponsored by E&PB, and to all E&PB personnel who support the execution of such work. Major, non-routine projects are defined as those which require more than 1000 total manhours or cost more than \$50,000 to complete. This policy statement applies to both internally and externally initiated projects. It applies to all new work item proposals as well as currently planned projects.

## **BACKGROUND**

The Integrated Scheduling Program was established in order to provide a comprehensive planning process which would result in the proper evaluation of major projects with respect to work windows, personnel resource and budget availability on a single and multiple project basis. The "tool" which both results from and supports the implementation of this program is an integrated long range plan and associated master schedule. This tool is referred to as the Integrated Long Range Plan (ILRP). The ILRP is a dynamic tool providing the basis for more proactive decision making in matters involving longer-term planning, resource management, and workscope control.



The Integrated Scheduling Program establishes a process which is consonant with E&PB's fundamental business practice defined by the Integrated Project Management Process (IPMP). The IPMP was established in response to E&PB's desire and commitment to continually improve decision making in the areas of resource management, scope control, and budget management, as well as in project scoping, planning, and estimating. The IPMP establishes an effective sequence of existing management processes, refines the interaction of these, and establishes new processes as necessary in order to strengthen project planning and control. The Integrated Scheduling Program is an integral part of the IPMP and further defines the IPMP with respect to integrated planning and regulator interface. It describes how the IPMP is applied toward making commitments to regulators, composing responses involving commitment status, and defining how internally- and externally-initiated work scope is planned and executed.

Integrated Scheduling Program objectives are as follows:

- Achieve effective planning, scheduling, implementation, and control of major plant betterment, and organizational betterment, projects for the Salem and Hope Creek Stations.
- Satisfy regulatory requirements and committed project completion dates.
- Improve the means of establishing and responding to commitments, and ensure that commitments are made only after the appropriate assessment of relative importance and the appropriate level of planning and scoping have been performed.
- Improve the management of human and financial resources.
- Provide sufficient lead times for projects.
- Establish a means to achieve flexibility in the integration of new projects or changes associated with existing projects into the long range plan and schedule for E&PB work.
- Provide the basis for annual budget development and control.
- Support the alignment of project workscope with Nuclear Department Key Success Factors by providing a clear relationship between corporate goals and objectives, and the introduction, planning, and execution of E&PB projects.

## INTEGRATED SCHEDULING PROGRAM POLICY

The ISP's relationship with E&PB's business practice of introducing, prioritizing, evaluating, scoping, planning, budgeting, funding, executing, and closing out major, non-routine projects is organized below by major business process. Each project life cycle stage is summarized; and for each stage, E&PB's policy involving the Integrated Scheduling Process and its application with respect to regulator interface is discussed. A process flowchart is provided in Attachment 1. Acronyms and definitions are provided in Attachments 2 and 3.

## WORK INTRODUCTION, ADMINISTRATION, AND PRIORITIZATION

### Project Initiation

The Nuclear Department Resource Allocation Program (NDRAP) is a site-wide process that assures Nuclear Department resources are only allocated to work items which provide appropriate value to PSE&G, and that department resources are applied to the most important projects first. The Centralized Work Control Group (CWCG) administers this process of introducing, screening, and prioritizing major, non-routine projects.

Proposals for these work items result from both internal and external initiatives. Internally-initiated items can be both non-regulatory and regulatory in nature, and can be introduced from the Stations, Engineering, or other Nuclear Department organizations. These items can also be prompted from sources such as INPO. An example of an internally-initiated item of a regulatory nature is an LER. Externally-initiated items originate with the NRC and other regulatory agencies. Regardless of whether an item originates from an internal or external source, it is introduced with the NDRAP process. An approved Resource Allocation Proposal (RAP) places the item on the Nuclear Department's Unapproved Work List.

### Regulatory Agency Items

When Licensing receives an externally-initiated item (for which a major, non-routine project solution is expected), a Licensing Engineer is assigned, tentative scope and response timing are defined; ties to related items and issues are identified; the item is entered into the Action Tracking System (ATS); it is categorized (refer to Attachment 4); and a RAP is executed. The new ATS item is initiated to the ILRP Coordinator. The initiation of the ATS item provides Licensing the ability to track the item until a response can be provided to the regulatory agency. The initiation of the ATS item also provides notification that an externally-initiated item has entered the Nuclear Department's work introduction process.

An internally-initiated item which is regulatory in nature can enter the work introduction process (NDRAP) without Licensing involvement, such as in the case of LERs. For these items, the assigned Licensing Engineer does not have the responsibility for ATS item generation.

### **Work Item Prioritization**

NDRAP priority setting serves to measure a proposed project's impact on the Nuclear Department's value framework, which is composed of several "motivators" and represents the Nuclear Department's visions and goals. Prioritization is accomplished by a scoring team. Based on this scoring, projects which offer the most significant contribution to the Nuclear Department's business plan, and the strategies defined within it, subsequently undergo a precursory project evaluation (Project Evaluation Package development). NDRAP prioritization is used in conjunction with the ILRP function to determine the sequence and timing of PEP development. In certain cases, when a regulatory-related response is required in a short timeframe, accelerated work introduction and scoring will be required.

### **Work Control**

Projects which have undergone the NDRAP screening and prioritization process are subsequently introduced to the "work control process" administered by the CWCG. The CWCG ensures that the NDRAP-required conceptual evaluation (PEP), which allows "project value" to be determined by assessing project benefit in relation to project cost, is accomplished consistent with NDRAP ranking. As a function of this work control stage, the item is screened with respect to work category, a Project Number is assigned, project evaluation is authorized (PAN approval), a Project Manager (or PEP Lead) is assigned, and cost accounting is established.

The CWCG-administered work control process assists in evaluating functional resource availability and gaining concurrence from the functional groups in developing the PEP. This is accomplished with a collective evaluation involving the CWCG Administrator, the Project Manager, and the ILRP Coordinator to determine a preliminary PEP development schedule, in addition to Alignment/Commitment Meetings and the use of Project Assignment Orders. A Licensing representative shall participate as a PEP Team member on all projects which are regulatory related.

It should be noted, that some special cases will require acceleration of E&PB's typical business practice of introducing and executing major projects. These special cases will be either "emergency" or "urgent-emergent" projects and are addressed according to E&PB's established policy regarding this type of work [refer to Project Management Manual procedure ND.OA-PJ.ZZ-0018(Z), Emergency and Urgent-Emergent Projects].

## **PEP Development**

The Project Manager forms the PEP Team, holds a kick-off meeting, and commences the PEP development process. The Project Evaluation Package (PEP) serves as an initial scoping mechanism providing an early determination of project workscope, feasibility, cost, schedule, resource impact, and economic benefit. The PEP process does not involve the accomplishment of extensive preliminary engineering. As a guideline, approximately 1% of formal engineering is accomplished, funded from a preliminary engineering authorization.

Project Managers (or PEP-leads) prepare a workscope statement describing the recommended project, and alternatives to the recommended project, as well as the current system and associated inadequacies. They also provide a description of project benefits and identify the consequences of delaying or not implementing the project. The PEP Team, assembled by the Project Manager provides conceptual resource projections involving engineering and technical service manpower, long lead equipment, major material needs, and installation manpower. This information is represented in the "conceptual" cost estimate (within a 50% confidence level) provided as a PEP component. Planning logic and a project phase-level schedule are also developed.

During PEP development, the ILRP Coordinator assists the PEP Team in developing the conceptual plan for the project. Prior to finalizing the project's conceptual schedule, the assigned Scheduling Engineer and the ILRP Coordinator shall jointly evaluate the PEP plan in terms of its compatibility with the ILRP. In this manner, major schedule and resource conflicts can be identified, considered, and addressed during the PEP planning process.

The Licensing representative on the PEP Team shall ensure that the regulatory significance of the project is understood by the team, ensure that any timing limitations or preferences are considered in the project's evaluation, and maintain an awareness of derived conceptual solutions and strategies.

### **PEP Approval**

PEP approval assures concurrence with regard to project conceptualization among E&PB Project Management, functional groups, and station management (or other client organizations), and supports the mission of NDRAP by steering the application of resources to the most cost-beneficial projects. The completed and approved PEP directly supports NDRAP policy and senior management directives concerning the assessment of a project's value to the Nuclear Department at various stages of its life cycle. General Manager approval of the PEP constitutes consent for the work item's inclusion on E&PB's Approved Work List.

### **Priority Re-assessment**

Following PEP development, the Project Manager should assess the item on the basis of the factors (NDRAP scoring motivators) which influenced the original priority. Based on this evaluation, if the Project Manager believes that information resulting from PEP development would significantly affect the project's assigned priority, a request for re-scoring is forwarded through the applicable MOP (or functional group equivalent) to the NDRAP Administrator.

### **INTEGRATED PLANNING - THE ILRP**

The PEP provides conceptual workscope definition, resource projections, planning information, and budget projections to the ILRP function. The ILRP Coordinator evaluates E&PB major, non-routine project workscope in an integrated fashion, assessing resource requirements, work window limitations, priorities, Nuclear Department Business Plan strategies and goals, budget restraints, and human resource availabilities, concurrently over the six-year planning period of the ILRP. This integrated assessment establishes single and multi-project sequencing strategies, and the timing for subsequent project life cycle stages. Importantly, this integrated long range planning process will establish the commencement date of the more detailed project definition stage, that is, the Project Scope Proposal (PSP) development.

Supporting the ILRP process is an integrated planning database which is composed of major, non-routine projects, and spans a six-year time frame. This planning database is called the Integrated Long Range Plan and includes outage as well as non-outage projects. PEP information is entered into this integrated planning database so that the evaluation, previously described, can be accomplished. PEP development and this integrated planning approach support the decision whether to include the project as a line item in the annual Capital Project Budget or O&M Budget, and the project's placement on the corresponding Annual Approved Work list. Budget and Annual Approved Work List development identify workscope that can be accommodated in the new budget year.

If no impacts are identified from this integrated planning effort, the work item is presented at the next scheduled Project Review Board (PRB) meeting for formal inclusion into the E&PB integrated long range plan as a conceptual schedule. While PEP approval signifies a project's inclusion on the Approved Work List, PRB approval implies acceptance of sequence, timing, and resource compatibility of the individual project with respect to the entire E&PB project workscope.

When impacts requiring resolution are identified, the ILRP Coordinator assembles the appropriate personnel to generate alternatives and recommend a solution. These personnel are appropriate members of the PEP Team, and, as necessary, the CWCG Administrator and key individuals involved with the budget management process.

Alternative solutions may impact PEP planning information or other individual project plans. If developed alternatives affect other individual project plans, the ILRP Coordinator works with the applicable project Scheduling Engineers and Project Managers in generating planning options and understanding the corresponding impacts. Alternatives may involve deviation from regulator preferences and/or changes to previous commitments.

Once a consensus is reached by this assembled group, a solution must be approved by the PRB. The recommended solution to the impact, and other reasonable alternatives, shall be presented to the PRB at the next scheduled PRB Meeting. The cognizant Project Managers attend these meetings when their projects are discussed. The ILRP Coordinator presents the planning options and discusses any required shifting and substitution of project work. The ILRP Coordinator ensures that regulatory item conflicts are addressed at this meeting. The PRB reviews the alternative plans and selects the conceptual plan and schedule for development of the project.

The ILRP process establishes the commencement date of the more detailed project definition stage, that is, the Project Scope Proposal (PSP) development. Also, the ILRP function is significant to Licensing since it provides the initial determination of the schedule for implementing regulatory-related projects.

The end result of the Integrated Long Range Planning process is the ILRP Master Schedule, which incorporates the schedules of all projects that are planned and approved over a six-year period, as well as corresponding manhour and dollar resources.

## Licensing Item Update

For regulatory-related projects, the ILRP Coordinator responds to Licensing with a completed ATS Action Request Form, a copy of the supporting PEP, and any revisions to the project plan or ILRP master schedule which resulted from the integrated planning effort. The ILRP Coordinator summarizes the outcome of the integrated planning effort (workslope and schedule) and indicates future actions which will be taken. This response forms the basis for PSE&G's response to the regulatory agency, which is prepared by Licensing.

Upon acceptance, Licensing closes the initial ATS task and opens a new ATS task for project execution. This new task designates the appropriate Project Manager (or functional group equivalent) as the responsible party.

## Regulator Interface

Licensing submits the initial response to the regulatory agency. The response informs the regulatory agency of the conceptual project approach and schedule expectations. Also, the response should properly qualify the associated confidence level considering this early stage of the project life cycle. There is a 90 day negative consent period for the NRC which is established by their policy statement on this subject. No negative response within this timeframe constitutes acceptance of the conceptual plan.

If PSE&G's response is not accepted by the regulatory agency, Licensing will communicate this information to the ILRP Coordinator. Licensing and the ILRP Coordinator will coordinate the resolution of any concerns.

## PROJECT SCOPING AND APPROVAL

### Work Control

Following budget approval of the project, and a resource coordination effort provided by the CWCG and the ILRP Coordinator, budget line item projects can advance to PSP development. This is a more detailed scoping and planning stage, which is required for funding approval.

The CWCG ensures that PSP development is authorized consistent with the ILRP determination of schedule. Similar to the work control process which supports the project evaluation stage, the CWCG provides notification that a project has been authorized for PSP development (PAN approval). In the process, a Project Manager is assigned and preliminary engineering funding is increased.

The CWCG-administered work control process assists in evaluating functional resource availability and gaining concurrence from the functional groups in developing the PSP. This is accomplished with Alignment/Commitment Meetings, and the use of Project Assignment Orders. A Licensing representative shall participate as a PSP Team member on all projects which have a regulatory categorization.

### **PSP Development**

The Project Manager forms the Project Team, holds a kick-off meeting, and commences the PSP development process. The Project Scope Proposal (PSP) serves as a more detailed scoping mechanism providing an improved interpretation of project workscope, feasibility, cost, schedule, resource impact, and economic benefit. The PSP provides the information which supports the budget planning process and is necessary to determine project design phase funding. The PSP serves as the baseline document for project development and implementation. Additional preliminary engineering is involved with PSP development; however, the extent of this effort is still limited. As a guideline, only 5% of project engineering is accomplished for PSP development. As with the PEP, PSP development is funded from a preliminary engineering authorization.

In order to obtain funding for project design, this more focused scoping and planning stage is required. Within the PSP process, the Project Team is established to determine design approach and further define project requirements (scope, schedule, cost, resources, and responsibilities). The PSP provides a problem statement, considers alternatives, refines technical objectives, identifies engineering deliverables, and identifies equipment, material, and service requirements. A "task-level" schedule with interface logic for all project development, implementation, and closeout activities is required. Engineering, technical service, and installation manpower is projected, a "preliminary" cost estimate (i.e. confidence level of 30%) is developed, and project cash flows are generated. Finally, as in the PEP process, an economic justification is conducted to re-evaluate project benefits in relation to project costs.

If the project is regulatory-related, the Licensing Project Team member shall ensure that the regulatory significance is understood by the team, shall ensure that any timing factors included with the initial response to the regulatory agency are considered, and shall maintain an awareness of derived preliminary solutions and strategies.

### **ILRP Update**

During PSP development, the ILRP Coordinator shall assist the Project Team in refining the project's plan. Prior to finalizing the project's preliminary schedule, the assigned Scheduling Engineer and the ILRP Coordinator shall jointly evaluate the PSP plan in terms of its compatibility with the ILRP.



The PSP provides improved workscope definition, resource projections, planning information, and budget projections to the ILRP function. PSP schedule, resource, and budget information is integrated into the ILRP planning database so that an individual and multi-project evaluation can be accomplished (comparable to the integrated planning effort associated with PEP development). The integrated long range plan may be impacted by this new information, and scheduling and resource tradeoffs may again be required. As with the PEP stage, impacts are identified, alternatives are developed, a solution is approved by the PRB. This effort is accomplished prior to PSP approval.

### **PSP Approval**

The PSP approval cycle assures concurrence with respect to preliminary project scoping among E&PB project management, functional groups, and station management (or other client organizations). The completed and approved PSP directly supports Nuclear Department policy and senior management directives concerning the continual assessment of a project's value to the Nuclear Department at various stages in the project life cycle. The PSP supports the decision whether to approve funding for project design.

### **Priority Re-assessment**

Following PSP development, the Project Manager should assess the item on the basis of the factors (NDRAP scoring motivators) which influenced the original priority. Based on this evaluation, if the Project Manager believes that information resulting from PSP development would significantly affect the project's assigned priority, a request for re-scoring is forwarded through the applicable MOP (or functional group equivalent) to the NDRAP Administrator.

### **Project Funding - Design**

Following PSP development, project funding must be approved prior to proceeding with detailed engineering and design. Funding is requested for projects with approved PSPs by means of the Investment Request (IR) process. To initiate the funding request process, the Project Manager and the Project Team's Cost Engineer complete a "design IR" and prepare an IR package using the information developed for the PSP. Project scope, cost, and economic information, prepared as a function of PSP development, serves as the basis for this funding request.

The funding approval cycle depends on the level of funding required. Funding approval may involve the Manager of Projects (MOP), the Manager of Nuclear Engineering Projects, the station, Planning and Financial Control (P&FC), the co-owners' representatives, the GM-E&PB, the VP-Nuclear Operations, the Chief Nuclear Officer, the Electric Business Unit (EBU), and finally, Corporate Budgeting. The terminal step of the funding approval process is receipt of formal funding authorization from Corporate Budgeting.

Following approval of the PSP and associated project funding, the original baseline "target schedule" is created for a project by the Project Team Scheduling Engineers based on the input of the Project Manager and other Project Team members.

## **PROJECT ENGINEERING**

### **Detailed Engineering and Design**

Once design funding has been authorized, detailed engineering and design efforts can commence. For physical plant modifications, preliminary engineering is completed, final design is accomplished, "special" material/equipment orders are placed, drawings are prepared, and calculations are provided. Change Packages (CPs) are prepared, issued, reviewed, and approved as appropriate. Contracts are solicited and awarded for GSA or other support.

### **Definitive Planning**

When detailed engineering and design are complete, a definitive estimate and schedule are prepared; in general, a complete reassessment of the overall project plan is accomplished. Manpower projections are revised as necessary and scope changes are identified. An economic re-evaluation is conducted as in the PEP and PSP development stages, re-evaluating project benefits in relation to project costs. This economic justification is considered the "definitive economic justification". PSPs are revised accordingly.

### **Priority Re-assessment**

Following definitive planning, the Project Manager should assess the improved understanding of the item in relation to the factors which influenced the NDRAP-established priority (motivator scoring). Based on this evaluation, if the Project Manager believes that information resulting from definitive planning would significantly affect the project's assigned priority, a request for re-scoring is forwarded through the applicable MOP (or functional group equivalent) to the NDRAP Administrator.

## **Project Funding - Implementation**

Once definitive planning has been accomplished, funding can be requested to commence project implementation. To initiate the implementation funding request process, the Project Manager and the Project Team's Cost Engineer complete an "implementation IR" and update the IR package as appropriate. Project scope, cost, and economic information, prepared as a function of this definitive stage, serves as the basis for this funding request. Similar to design funding requests, the implementation funding approval cycle depends on the level of funding required. An approved "implementation IR" provides the authorization for total project funding.

## **ILRP Update**

The definitive planning effort provides improved workscope definition, resource projections, planning information, and budget projections to the ILRP function. As in PSP development, the ILRP Coordinator supports the Project Team in refining the project's plan. Prior to finalizing the project's definitive schedule, the assigned Scheduling Engineer and the ILRP Coordinator jointly evaluate the definitive plan in terms of its compatibility with the ILRP.

Definitive schedule, resource, and budget information is integrated into the ILRP planning database so that an individual and multi-project evaluation can be accomplished. The integrated plan may be impacted by this new information, and scheduling and resource tradeoffs may again be required. As with the PSP stage, impacts are identified, alternatives are developed, a solution is approved by the PRB. This effort is accomplished prior to PSP approval.

## **PROJECT IMPLEMENTATION**

Once total project funding has been authorized, project implementation may commence. For physical plant modifications, remaining material and equipment is procured; work forces are mobilized; installation is completed; specifications are prepared; testing is performed; and turnover to the client is accomplished.

## **Project Control**

Throughout project development (detailed engineering and design) and implementation, the Project Manager exercises formal and informal project control to ensure that planned tasks are completed on time, within budget, and meet technical objectives. The Project Team identifies problems and determines cause. When problems are identified, the Project Manager interfaces with the Team, the client, functional groups, and the Manager of Projects to evaluate impacts, generate possible solutions, and decide on the most appropriate solution. Corresponding impacts on project technical objectives, cost, and schedule are determined. Project change management is accomplished by means of the Project Change Request (PCR) process.

## **Revised Funding**

Funding Level Changes (FLCs) and Revised Cash Flows are completed as project cost changes impact established thresholds. These revised funding mechanisms stimulate revised IRs which involve approval cycles for corporate authorization. The terminal step of the "revised funding" approval process is receipt of formal authorization from Corporate Budgeting. Revised funding processes are in effect throughout project design, implementation, and closeout.

## **ILRP Update**

As projects undergo changes and are individually progressed throughout design and implementation, revised schedule, resource, and budget information is integrated into the ILRP planning database so that, once again, individual and multi-project evaluations can be accomplished. The integrated long range plan may be impacted by this new information, and scheduling and resource tradeoffs may, again, be required. Upon project completion, the responsible Project Manager (or functional group equivalent) notifies the assigned Licensing Engineer when a regulatory-related project has been implemented and approved for service. The Licensing Engineer subsequently closes out the item in ATS.

## **ILRP CONTINUAL, ROUTINE UPDATE**

### **ILRP Planning Database**

The ILRP planning database is dynamic in nature, undergoing continual modification with updated information. This information originates from various sources and at various frequencies, and includes data such as monthly-updated project schedules, corresponding human resource allocations, corresponding cash flow changes, project priority changes, operational window changes, functional resource availability changes, added PEP development activities, results of PSP and definitive planning stages, budget limitation changes, and management strategy changes. The ILRP Coordinator is responsible for maintaining an awareness of such information and for incorporating such information into the ILRP planning database.

Monthly, the ILRP Coordinator shall conduct analyses of changes in the planning information contained in the ILRP, identify affects on the ILRP Master Schedule, determine what impacts the PRB should address, and present analysis results and recommendations to the PRB. Changes required to the ILRP planning database as a result of PRB meetings shall be promptly executed by the ILRP Coordinator.

ILRP integrated planning supports the development of the annual Capital Project Budget, the O&M Budget, and the Annual Approved Work list. The ILRP Coordinator supports these functions as required.

Periodically, the ILRP Coordinator reviews the ILRP planning database for potential project "cancellations". Candidate projects for cancellation can be proposed on the basis of attributes such as "age" in the ILRP planning database, changing priorities, and length of time before a project can be executed. Candidate projects may be internally- or externally-initiated. The ILRP Coordinator shall prepare a recommendation for cancelling a project to the PRB. Cancelled projects will be maintained in a manner that allows historical reference.

### **ILRP Reporting**

The ILRP Coordinator will produce, at a minimum, quarterly and semi-annual reports for use at PRB meetings and for distribution to appropriate individuals within the Nuclear Department.

ILRP output and analyses shall be provided to Licensing, as required, for interfacing with the regulatory agencies.

## **Continued Licensing and Regulator Interface**

As a function of the Integrated Scheduling Program, periodic status is provided to the NRC. This is accomplished through semi-annual submittals. For these submittals, the ILRP Coordinator extracts the required schedule information from the ILRP database and prepares a draft report. The semi-annual ILRP schedule information which is provided to the NRC is presented at a PRB meeting for approval prior to its submittal by Licensing to the NRC.

Licensing and NEPS will jointly evaluate proposed schedule changes to regulatory commitments on a periodic basis. The project schedule status is evaluated with respect to imposed, or previously established, commitments, and any identified conflicts are resolved. As discussed earlier, some conflicts may involve negotiation internally within the Nuclear Department. If the GM-E&PB determines that schedule changes to previously committed NRC-related projects are required, then Licensing informs the NRC of the schedule impacts. Changes to N1 categorized items require prior NRC approval. A written request describing the change, providing justification, and requesting the new commitment date is forwarded to the NRC for their approval. Changes to N2 categorized items do not require NRC pre-approval. Licensing will notify the appropriate NRR Project Manager by telephone when an extension is needed for a due date which occurs before the next semi-annual update. All other N2 item changes will be addressed in the semi-annual update. There is a ninety (90) day negative consent associated with these changes. No negative response within this timeframe constitutes acceptance. Any submittals should properly qualify the associated confidence level considering the given stage of the project life cycle. Changes to items in other ISP categories, e.g. E1, E2, U1, I1, do not require NRC approval.

If PSE&G's submittal is not accepted by the NRC, Licensing will communicate this to the ILRP Coordinator. Licensing and the ILRP Coordinator will coordinate the resolution of identified concerns.

The ILRP Coordinator supports Licensing with analyses necessary for regulatory agency discussions.

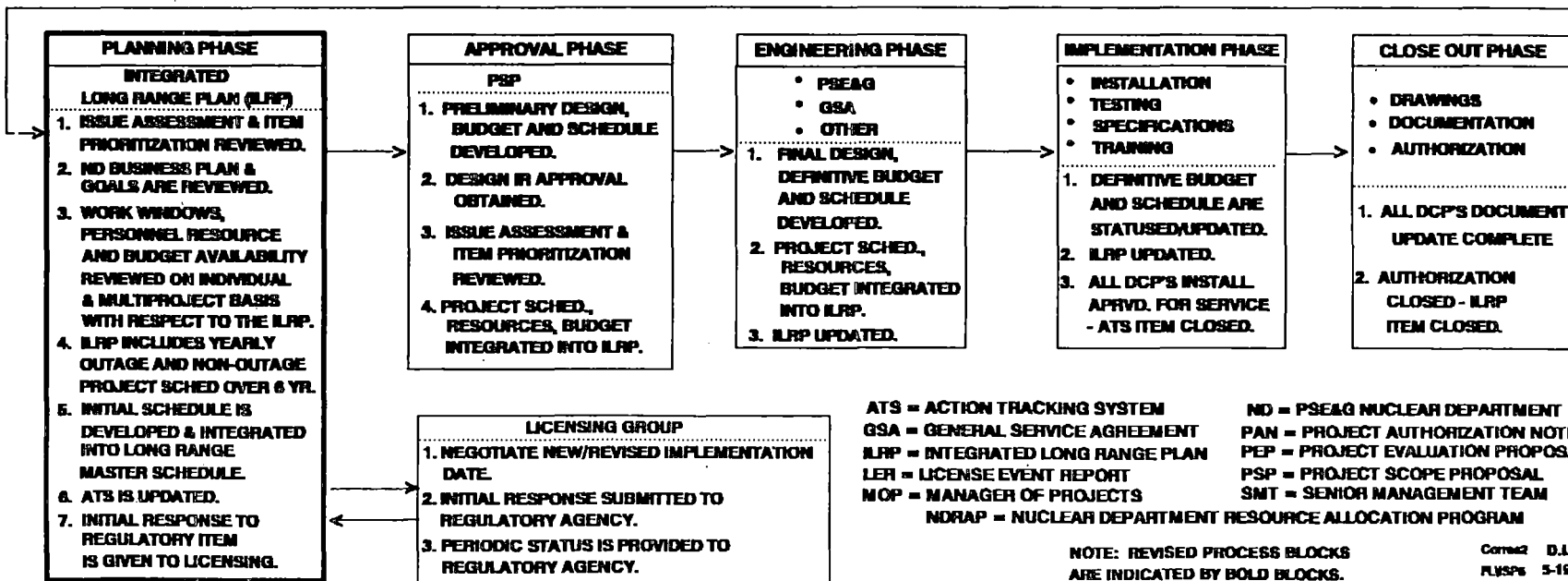
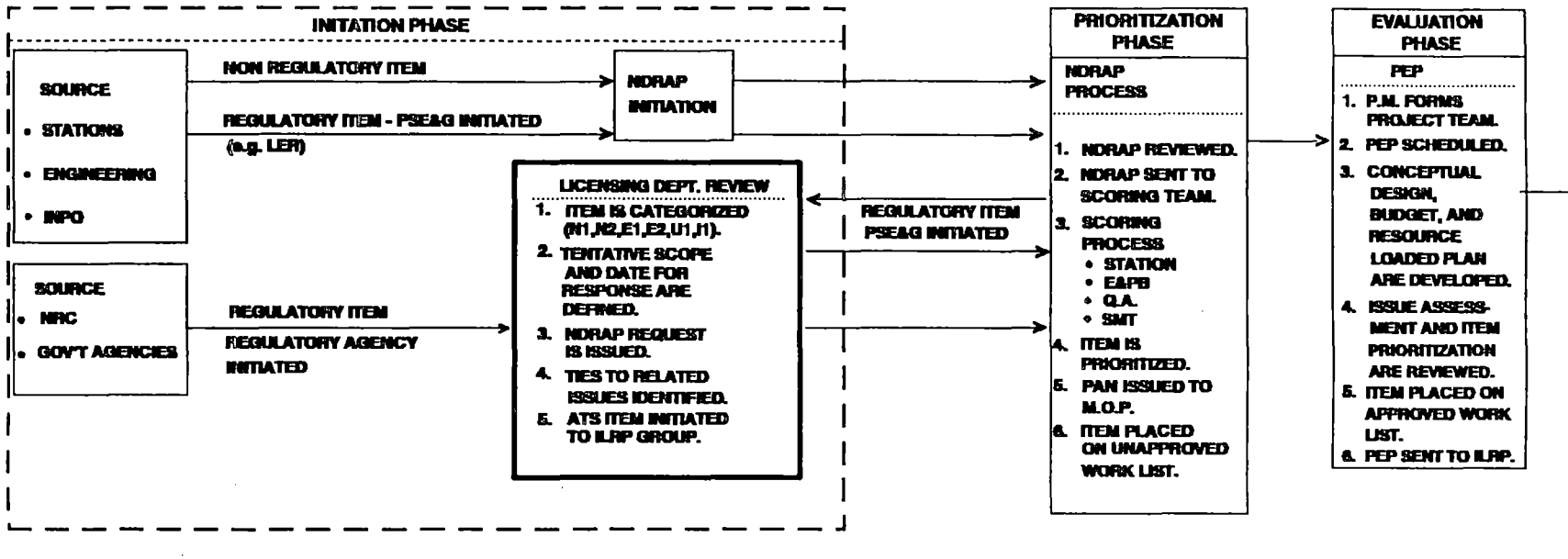
## **PROJECT CLOSEOUT**

Following project installation, testing, and turnover, the project is closed out. Project closeout can be separated into the following three functions: documentation closure, post-project analysis, and financial closure.

- Document closeout is the process that provides for the closure of all applicable project records (non-financial), the final revision and issue of design-related documentation to reflect the "as-built" condition, and the retention of essential project documentation.
- Post-project analysis is a lessons-learned evaluation conducted during or after project documentation closure. Deviations in project scope, cost, schedule, and quality are analyzed for the benefit of future projects and the introduction of positive process change.
- Financial closure includes the activities necessary to terminate corporate authorization of project funding (conclude project expenditures) following the completion of work, documentation closeout, and any post-project reviews.

Upon completion of financial closure, the project will be removed from the active ILRP planning database.

# INTEGRATED SCHEDULING PROGRAM FOR MAJOR MODIFICATIONS SALEM AND HOPE CREEK STATIONS



ATIS = ACTION TRACKING SYSTEM  
 GSA = GENERAL SERVICE AGREEMENT  
 ILRP = INTEGRATED LONG RANGE PLAN  
 LER = LICENSE EVENT REPORT  
 MOP = MANAGER OF PROJECTS  
 NDRAP = NUCLEAR DEPARTMENT RESOURCE ALLOCATION PROGRAM  
 ND = PSE&G NUCLEAR DEPARTMENT  
 PAN = PROJECT AUTHORIZATION NOTICE  
 PEP = PROJECT EVALUATION PROPOSAL  
 PSP = PROJECT SCOPE PROPOSAL  
 SMT = SENIOR MANAGEMENT TEAM

NOTE: REVISED PROCESS BLOCKS ARE INDICATED BY BOLD BLOCKS.

Control D.L.M.  
FLSPS 5-19-92



**ATTACHMENT 2  
INTEGRATED SCHEDULING PROGRAM  
ACRONYMS**

**ATS** - Action Tracking System

**CP** - Change Package

**CWCG** - Centralized Work Control Group

**E&PB** - Engineering & Plant Betterment

**FLC** - Funding Level Change

**GSA** - General Services Agreement

**ILRP** - Integrated Long Range Plan

**IPMP** - Integrated Project Management Process

**IR** - Investment Request

**ISP** - Integrated Scheduling Program

**MOP** - Manager of Projects

**NDRAP** - Nuclear Department Resource Allocation Program

**PAN** - Project Authorization Notification

**PCR** - Project Change Request

**PEP** - Project Evaluation Package

**PRB** - Project Review Board

**PSP** - Project Scope Proposal

**RAP** - Resource Allocation Proposal

**ATTACHMENT 3**  
**INTEGRATED SCHEDULING PROGRAM**  
**DEFINITIONS**

**Current Finish Date** - the current estimate of the calendar date when a scheduled activity is expected to be completed.

**Externally Initiated Project** - A project initiated by PSE&G in direct response to a regulatory requirement (rule, order, commitment, etc.).

**Integrated Planning Analysis** - conducted for projects during the PEP, PSP, and definitive planning stages (and when significant changes to projects are encountered). The ILRP planning database is the "tool" which supports this analysis. The analysis addresses resource requirements, work window limitations, priorities, Nuclear Department Business Plan strategies and goals, budget restraints, and human resource availabilities, concurrently over the six-year planning period of the ILRP.

**Integrated Long Range Planning (ILRP) Coordinator** - the Scheduling Lead, who is responsible for executing the NEPS ILRP function and reports to the NEPS Scheduling Supervisor.

**Integrated Long Range Plan (ILRP) Database** - the planning database which serves as the integrated planning analysis "tool" and is administered by the NEPS ILRP Coordinator. This planning database is composed of major non-routine project schedules, and the corresponding manhour and dollar resources. It includes outage as well as non-outage projects and spans a six-year time frame. The ILRP planning database is dynamic in nature, undergoing continual modification with updated information. This information originates from various sources and at various frequencies, and includes data such as monthly-updated project schedules, corresponding human resource allocations, corresponding cash flow changes, project priority changes, operational window changes, functional resource availability changes, added PEP development activities, results of PSP and definitive planning stages, budget limitation changes, and management strategy changes.

**Internally Initiated Project** - A project initiated by PSE&G to correct a deficiency, enhance a system or component, improve operations, etc. independent of any regulatory initiative.

**ILRP Master Schedule** - one of many information extractions from the ILRP planning database. The ILRP Master Schedule includes an integrated schedule in its most summary form, as well as corresponding resource information.

**ATTACHMENT 3**  
**INTEGRATED SCHEDULING PROGRAM**  
**DEFINITIONS**

**Nuclear Department Resource Allocation Program (NDRAP)** - a site-wide process which assures that Nuclear Department resources are only allocated to work items which provide an appropriate value to PSE&G, and that Department resources are applied to the most important projects first. Work items referred to here are major, non-routine projects (capital and O&M) that will require more than 1000 total manhours or cost more than \$50,000 to complete. The process calls for work introduction by a Resource Allocation Proposal (RAP), work item prioritization, economic evaluation, and management approval. NDRAP is administered by the NEPS CWCG Administrator.

**Nuclear Engineering & Project Services (NEPS)** - organization within PSE&G Nuclear Engineering. NEPS is composed of the Cost, Schedule, Contracts, and Centralized Work Control groups.

**Project Authorization Notification (PAN)** - a formal notification authorizing specific stages of a project.

**Project Assignment Order (PAO)** - provides a formal mechanism to record resource alignment decisions on projects, that is, work efforts initiated with a PAN. The PAO defines manpower involvement and interface of functions by project stage. The PAO is the formal product of the Alignment/Commitment meeting issued jointly through the CWCG and the Project Manager to functional representatives who have been assigned to be project participants. The PAO records the decisions made in the Alignment/Commitment Meeting.

**Plan** - An intended course of action, defined by scope, schedule, resource (cost and manpower), quality objectives, and corresponding data that describes how a project is to be implemented.

**Semi-annual NRC Integrated Schedule Report** - the ILRP output provided to Licensing at six month intervals to support an Integrated Schedule Program formal submittal process.

**Target Schedule** - A schedule "snap shot", usually of an original baseline schedule, created for comparison with schedule progress a later point in time. "Target finish dates" are compared to "current finish dates" so that schedule deviations can be measured.

**Six-year Outage Schedule** - a summary level schedule, produced from the ILRP planning database, which depicts station outage periods over a moving six-year timeframe and includes the scope of E&PB major project work planned for each outage.

**ATTACHMENT 4  
INTEGRATED SCHEDULING PROGRAM  
LICENSING CATEGORIZATION**

The assigned Licensing Engineer categorizes regulatory-related projects according to the table below and documents this categorization on the Resource Allocation Proposal (RAP).

<u>Category</u>	<u>Description</u>
N1	Mandated by NRC; externally imposed completion date
N2	Utility commitment to NRC item; internally imposed completion date
E1	Mandated environmental items; externally imposed completion date
E2	Utility commitment to environmental item; internally imposed completion date
U1	Utility initiative; internally imposed completion date
I1	INPO items; internally imposed

**NOTE:**

**The Action Tracking Program procedure, NC.NA-AP.ZZ-0057(Q), contains a regulatory classification scheme. The ATS categories are based on "response" requirements, whereas the categories in the table above are "source and execution" oriented. The two categorization schemes are independent of each other.**

**ATTACHMENT C**

**INTEGRATED  
SCHEDULING  
PROGRAM**

**PRIORITIZATION**

## PRIORITY CRITERIA

This process is based on the belief that all resource utilization within the Nuclear Department is aimed at fulfilling some or all of nine key motivators or objectives (nuclear safety, personnel safety, non-nuclear environment, human climate, plant availability/reliability, department effectiveness/efficiency, work force capability, cost effectiveness, and public image) refer to Exhibit 1, Prioritization Phase Key Motivators. Senior management has determined relative weighting factors for each of these motivators. Weighting factors are reviewed periodically to assure appropriateness.

## SCORING PROCESS

The priority process begins with initiation of a proposed work item, and is highly dependent on a complete narrative description relating each of the nine motivators to the proposed task (refer to Exhibit 2). Initiation is procedurally controlled to ensure consistent format and content, and facilitate progress/status reporting.

Once a proposed work item enters the NDRAP process (refer to Exhibit 3), it is independently scored by a number of management individuals. These individuals use the information provided in the narrative description (refer to Exhibit 4), to determine the impact on each of the nine key motivators.

These scores are weighted and an average is determined. The weighted average establishes the relative rank (priority) of the work item. Work items are listed in rank order, with the highest priority items (in rank order) subjected to detailed estimating and cost benefit analysis.

## EMERGENCY WORK

General Managers identify emergency work through the use of Executive Override. Emergency work items bypass the priority scoring system. Resources are applied as though the item had the highest priority.

## REGULATORY COMMITMENTS

Regulatory required or committed work is scored the same as other items, but is annotated as "Regulatory Required." These items receive a regulatory adder to the task score. This adder is applied immediately upon receipt and verification of the regulatory concern, so that the item has visibility during the evaluation process.

WORK ITEM IMPLEMENTATION

Following the evaluation process, approved items are scheduled for implementation based on an overall integrated schedule analysis.

**ATTACHMENT C**  
**INTEGRATED SCHEDULING PROGRAM**  
**EXHIBIT 1**

**PRIORITIZATION PHASE**  
**KEY MOTIVATORS**

**DEFINITIONS:**

**Nuclear Safety:** The extent to which this proposal contributes to maintaining or improving the health and safety of the general public and plant employees, including reductions in core melt frequency, challenges to safety systems, release of radiation offsite, or increases in safety systems availability.

**Personnel Safety/ALARA:** The extent to which this proposal contributes to reducing eliminating actual or potential situations that could result in personnel injury or increased personnel radiation exposure.

**Non-Nuclear Environment:** The extent to which this proposal contributes to reducing or eliminating actual or potential discharges that could result in violating federal or state environmental regulations.

**Human Climate:** The extent to which this proposal will benefit our employees by improved quality of work life. This can be through improvements to the physical environment or through improvements in leadership skills.

**Plant Availability/Reliability:** The extent to which this proposal improves the time the plant is available to generate electricity or improves the ability of the plant systems and equipment to operate as intended.

**Department Efficiency/Effectiveness:** The extent to which this proposal will result in improved organization clarity or functioning. It is a trait that represents a synergistic approach.

**Work Force Capability:** The extent to which this proposal will improve the effectiveness of the workforce by training, skill enhancement or improved efficiency.

**Cost Effectiveness:** The extent to which this project contributes to the overall reduction in the cost of generating electricity, considering both the installed costs, and the on-going operating and maintenance costs.

**Public Image:** The extent to which this proposal will result in positively meeting or improving community or industry relations or involvement.



ATTACHMENT C  
INTEGRATED SCHEDULING - PROCESS FLOWCHART  
EXHIBIT 2

<b>NUCLEAR DEPARTMENT RESOURCE ALLOCATION PROPOSAL</b>		<b>NDRAP NUMBER:</b>  RAP- _____ - _____ - _____ R/C                  YR.                  NO.																																				
<b>TITLE:</b> _____ ===== <b>SCOPE/DEFINITION:</b>            		<b>PROPOSED RESPONSIBLE R/C</b>  _____																																				
		<b>ESTIMATES:</b> <b>TOTAL COST</b> _____ <b>TOTAL MHRS</b> _____																																				
		<b>FUNDING</b>	<b>O&amp;M</b>	<b>CAP</b>																																		
		<b>DCP/DCR</b> _____																																				
		<table style="width:100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; border-bottom: 1px solid black;">REF. NO.</th> <th style="text-align: left; border-bottom: 1px solid black;">DUE DATE</th> </tr> </thead> <tbody> <tr> <td style="border-bottom: 1px solid black;">ATS _____</td> <td style="border-bottom: 1px solid black;">_____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">DEF _____</td> <td style="border-bottom: 1px solid black;">_____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">HPES _____</td> <td style="border-bottom: 1px solid black;">_____</td> </tr> <tr> <td style="border-bottom: 1px solid black;">PACE _____</td> <td style="border-bottom: 1px solid black;">_____</td> </tr> </tbody> </table>		REF. NO.	DUE DATE	ATS _____	_____	DEF _____	_____	HPES _____	_____	PACE _____	_____																									
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		<b>REVISION 1</b>																																				

ATTACHMENT C  
INTEGRATED SCHEDULING - PROCESS FLOWCHART  
EXHIBIT 2

NUCLEAR DEPARTMENT  
RESOURCE ALLOCATION PROPOSAL

NDRAP NUMBER:

RAP-          -          -           
R/C            YR.            NO.

TITLE: \_\_\_\_\_

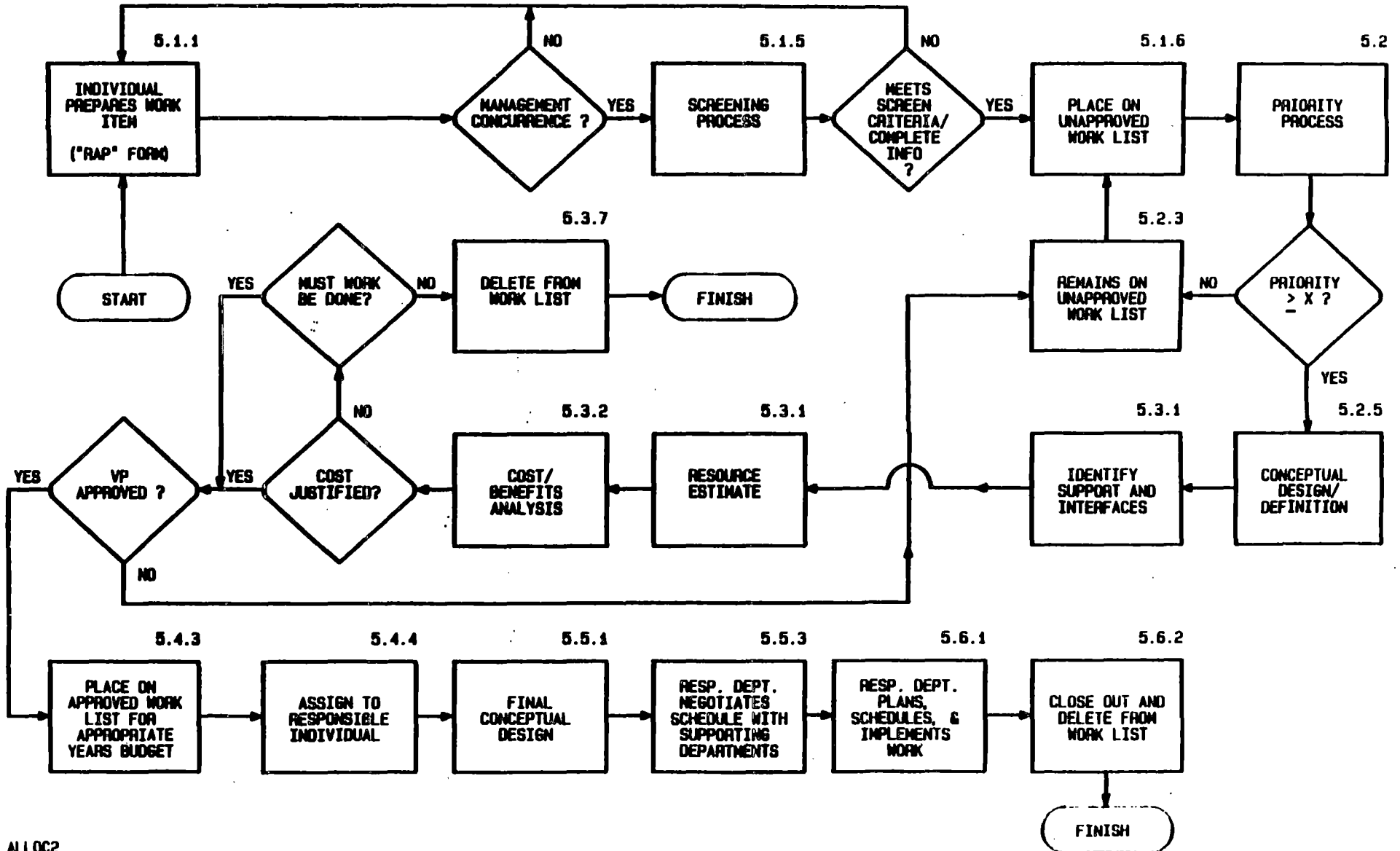
EXPLANATORY NOTES

NOTE NO.

DETAILED NARRATIVE

ATTACHMENT C  
 INTEGRATED SCHEDULING PROGRAM  
 EXHIBIT 3

**NUCLEAR DEPARTMENT RESOURCE ALLOCATION PROCESS**



ATTACHMENT C  
 INTEGRATED SCHEDULING PROGRAM  
 EXHIBIT 4

**PRIORITY SCORE SHEET**

WORK ITEM NAME \_\_\_\_\_

WORK ITEM NO. \_\_\_\_\_ DATE \_\_\_\_\_

NAME OF SCORER \_\_\_\_\_

Indicate below by an **X** on the scale the degree to which this work item is necessary to improve or maintain each motivation.

MOTIVATION	Not At All		A MINIMAL AMOUNT		TO A MODERATE DEGREE		TO A SIGNIFICANT DEGREE		ABSOLUTELY NECESSARY		
	0	1	2	3	4	5	6	7	8	9	10
1. NUCLEAR SAFETY	0	1	2	3	4	5	6	7	8	9	10
2. PERSONNEL SAFETY/ALARA	0	1	2	3	4	5	6	7	8	9	10
3. NON-NUCLEAR ENVIRONMENT	0	1	2	3	4	5	6	7	8	9	10
4. HUMAN CLIMATE	0	1	2	3	4	5	6	7	8	9	10
5. PLANT AVAIL. RELIABILITY	0	1	2	3	4	5	6	7	8	9	10
6. DEPT. EFFICIENCY/EFFECTIVENESS	0	1	2	3	4	5	6	7	8	9	10
7. WORK FORCE CAPABILITY	0	1	2	3	4	5	6	7	8	9	10
8. COST EFFECTIVENESS	0	1	2	3	4	5	6	7	8	9	10
9. PUBLIC IMAGE	0	1	2	3	4	5	6	7	8	9	10

IS THIS WORK ITEM A SPECIFIC REGULATORY REQUIREMENT OR A REGULATORY COMMITMENT?

YES       NO

**ATTACHMENT D**

**INTEGRATED  
SCHEDULING  
PROGRAM**

**PROJECT STATUS  
REPORT**

**PUBLIC SERVICE ELECTRIC & GAS  
E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

02/26/93

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 2 7TH REFUELING OUTAGE</u></b>				<b>(BREAKER OPEN 03/20/93 - BREAKER CLOSED 06/01/93)</b>			
<b><u>SALEM PROJECTS-N. LEECH</u></b>							
1	2EC3177 RVLIS MODIFICATIONS (2R7)	RAP-069-90-0240	U1		5 October 1992	12 April 1993	TARGET SCHEDULE
2	2EC3198 CONTROL ROOM ANNUNCIATOR MODS (2R7)	RAP-069-90-0236	N2		31 December 1992	1 June 1993	TARGET SCHEDULE
3	2EC3196 REG GUIDE 1.97 (2R7)	RAP-126-91-0017	N2		14 December 1992	20 May 1993	TARGET SCHEDULE
4	2EC3098 REPLACE ROSEMOUNT TRANSMITTERS (2R7)	RAP-069-90-0435	N2	NRC/BULL/90-01	7 December 1992	6 May 1993	TARGET SCHEDULE
5	2EC3130 INTAKE BAY NUMBER 4 (2R7)	RAP-144-92-0003	U1		29 March 1993	29 April 1993	TARGET SCHEDULE
6	2EC3128 NUCLEAR HEADER CROSSOVER-UNIT 2 (2R7)	RAP-144-91-0014	U1		29 March 1993	7 May 1993	TARGET SCHEDULE
7	2EC3127 DIESEL GENERATOR PIPE-UNIT 2 (2R7)	RAP-144-91-0012	U1		29 June 1992	29 April 1993	TARGET SCHEDULE
8	2SC2267 SEC ATI RESTORATION (OUTAGE) (2R7)	RAP-069-90-0243	U1		29 March 1993	20 May 1993	TARGET SCHEDULE
9	2SC2163 SYNCHRO RELAYS FOR MAIN GENERATOR (2R7)	RAP-148-90-0010	U1		30 November 1992	20 May 1993	TARGET SCHEDULE
10	2SC2164 SYNCHRO RELAYS FOR EMERGENCY GEN. (2R7)	RAP-148-90-0010	U1		30 November 1992	20 May 1993	TARGET SCHEDULE
11	2EC3129 UNIT 2 TURBINE LUBE OIL PIPING (2R7)	RAP-144-91-0004	U1		29 March 1993	29 April 1993	TARGET SCHEDULE
12	2EC3083 UN 2 CHILL CNDNSR PIPG PHSE 2 (2R7)	RAP-144-92-0004	U1		6 October 1992	29 April 1993	TARGET SCHEDULE
13	2EC3131 22CCHX UPSTREAM PIPING (2R7)	RAP-144-91-0015	U1		29 March 1993	7 May 1993	TARGET SCHEDULE
14	2EC3175 MSR TUBE BUNDLES - 22W & 23E (2R7)	RAP-069-90-0331	U1		6 August 1992	3 June 1993	TARGET SCHEDULE
15	2EC3209 TURBINE SUPERVISORY (2R7)	RAP- - -			18 January 1993	3 June 1993	CONCEPTUAL SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
Installation finish occurs when installation is approved for service.  
(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

**PUBLIC SERVICE ELECTRIC & GAS  
E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

02/26/93

ITEM NO	PROJECT	NDRAP #	ISP CAT	REGULATORY ITEM	INITIATION START	INSTALLATION FINISH	COMMENTS
<b>SALEM UNIT 2 7TH REFUELING OUTAGE</b>					<b>(BREAKER OPEN 03/20/93 - BREAKER CLOSED 06/01/93)</b>		

**SALEM PROJECTS-N. LEECH**

16	2EC3180 CRDM CLAMPS REPLACEMENT (2R7)	RAP-069-90-0295	N2	NRC/DKLT/88-11-17	1 July 1992	3 June 1993	TARGET SCHEDULE
17	2EC3181 AUX FEED FLOW MODS (2R7)	RAP-122-91-0001	N2	NSO/LER/272/91-03600	30 September 1992	20 May 1993	TARGET SCHEDULE
18	2EC3190 PORV MODS (2R7)	RAP-148-90-0049	N2	NRC/NREG/0737-II.D.1	12 July 1990	3 June 1993	CONCEPTUAL SCHEDULE
19	2EC STEAM GENERATOR NOZZLE INSPECTION (2R7)	RAP-125-92-2001	N2		1 March 1993	28 April 1993	TARGET SCHEDULE
20	2EC STEAM GENERATOR INSPECTION (2R7)	RAP-125-92-2001	N2		25 January 1993	20 May 1993	TARGET SCHEDULE
21	2EC SGF PIPE (EROSN/CORRSN) (2R7)	RAP-125-91-0003	U1		1 December 1992	21 May 1993	TARGET SCHEDULE
22	2EC3144 COPES VULCAN VLV PPG HGR MODS (2R7)	RAP-125-90-0002	N2	NRC/INFO/90-17	1 March 1992	4 June 1993	TARGET SCHEDULE
23	2E02295 2B DIESEL GENERATOR SWAPOUT	RAP- - -					SCHEDULE TBD
24	2EC3211 SGF PRESSURE REDUCTION - PRELIM. (2R7)	RAP- - -			29 January 1993	3 June 1993	CONCEPTUAL SCHEDULE

**REVITALIZATION-M. METCALF**

25	2EC3136 EL11-V..ROD CNTRL SYS PWR SPLY (2R7)	RAP-129-92-0098	U1		25 March 1993	18 June 1993	TARGET SCHEDULE
26	2EC3139 CP01- I..COND/PLSHNG STRUCT STL (2R7)	RAP-129-91-0015	U1		19 March 1993	29 July 1993	TARGET SCHEDULE
27	2EC3172 HV05-V..HVAC MODS TO D/G BAYS (2R7)	RAP-129-91-0024	U1		6 November 1992	19 July 1993	TARGET SCHEDULE
28	2EC HV13- V..HVAC:UPGRADE FLTR UNITS (2R7)	RAP-129-91-0032	U1		8 December 1992	14 May 1993	TARGET SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
Installation finish occurs when installation is approved for service.  
(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

**PUBLIC SERVICE ELECTRIC & GAS  
E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

02/26/93

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 2 7TH REFUELING OUTAGE</u></b>					<b>(BREAKER OPEN 03/20/93 - BREAKER CLOSED 06/01/93)</b>		
<b><u>REVITALIZATION-M. METCALF</u></b>							
29	2EC HV13-V..ROLL FILTERS CNTL RM/SWGR (2R7)	RAP-129-91-0032	U1		25 February 1993	25 February 1993	TARGET SCHEDULE
30	2EC3101 GN01-I..HYDRO GAS DRYR INST MODS (2R7)	RAP-129-91-0006	U1		24 March 1993	18 June 1993	TARGET SCHEDULE
31	2EC EH01-V..UPGRADE TURB EHC SYS (2R7)	RAP-129-91-0063	U1		18 January 1993	2 August 1993	TARGET SCHEDULE
32	2EC3204 EH01-V..TURB EHC SKID UPGRDS (2R7)	RAP-129-91-0063	U1		18 January 1993	27 May 1993	TARGET SCHEDULE
33	2EC3210 MP01..#23UAUXEFD PMPDRIGGING PTS (2R7)	RAP-129-91-0016	U1		25 January 1993	25 June 1993	TARGET SCHEDULE
34	1EC3209 EL02- I..ELE:PAGE SYS-5 CHNNL (2R7)	RAP-129-91-0055	U1		5 May 1993	18 May 1993	TARGET SCHEDULE
35	2EC IC06-V..MISC I&C UPGRADES (2R7)	RAP-129-91-0091	U1		27 October 1992	29 July 1993	TARGET SCHEDULE
36	2EC3097 DG01-I..DSEL GEN RELIABILITY MOD (2R7)	RAP-129-91-0040	U1		29 March 1993	9 April 1993	TARGET SCHEDULE
37	2EC3170 BF01-I..SGFD PMP CNTRL OIL SYS (2R7)	RAP-129-91-0008	U1		20 July 1992	28 July 1993	TARGET SCHEDULE
38	2EO2280 CW07- V..CIRC/WTR BEARNG LUBE VLV (2R7)	RAP-129-91-0018	U1		26 March 1993	8 July 1993	TARGET SCHEDULE
39	2EC3189 EL01-I..INSTLN OF PERM BACKUP PWR (2R7)	RAP-129-91-0039	U1		2 November 1992	30 July 1993	TARGET SCHEDULE
40	2EC3109 AF01- I..AUX/FEED TACH & T/C INST (2R7)	RAP-129-91-0046	U1		15 March 1993	6 July 1993	TARGET SCHEDULE
41	2EC ELX2-V..4KV SWTCHGR MAINTENANCE (2R7)	RAP-129-91-0044	U1		15 March 1993	11 May 1993	TARGET SCHEDULE
42	2CW002H CW02-I..WTRBX STIFFNRS & LADDERS (2R7)	RAP-129-91-0018	U1		29 December 1992	6 July 1993	TARGET SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
Installation finish occurs when installation is approved for service.  
(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*



02/26/93

**PUBLIC SERVICE ELECTRIC & GAS  
E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 1 11TH REFUELING OUTAGE</u></b> (BREAKER OPEN 10/02/93 - BREAKER CLOSED 12/12/93)							
<b><u>SALEM PROJECTS-N. LEECH</u></b>							
1	1EC3128 RHR PUMP DEADHEAD (1R11)	RAP-069-90-0525	N2	NRC/BULL/88-04	1 January 1991	3 December 1993	TARGET SCHEDULE
2	1EC3205 RVLIS MODIFICATIONS (1R11)	RAP-069-90-0240	U1		5 October 1992	15 November 1993	TARGET SCHEDULE
3	1EC3227 CONTROL ROOM ANNUNCIATOR MODS (1R11)	RAP-069-90-0236	N2		31 December 1992	10 December 1993	TARGET SCHEDULE
4	1EC3225 REG GUIDE 1.97 (1R11)	RAP-126-91-0017	N2		4 February 1993	10 December 1993	TARGET SCHEDULE
5	1EC3054 CFCU 11-15 CONTAIN PIPG BEL 102' (1R11)	RAP-144-91-0016	U1		4 October 1993	4 November 1993	TARGET SCHEDULE
6	1EC3149 DIESEL GENERATOR PIPE-UNIT 1 (1R11)	RAP-144-91-0011	U1		17 November 1992	4 November 1993	TARGET SCHEDULE
7	1EC3150 NUCLEAR HEADER CROSSOVER-UNIT 1 (1R11)	RAP-144-91-0013	U1		25 November 1992	4 November 1993	TARGET SCHEDULE
8	1EC3151 UNIT 1 TURBINE LUBE OIL PIPING (1R11)	RAP-144-91-0003	U1		17 November 1992	4 November 1993	TARGET SCHEDULE
9	1SC2269 500-13.8KV SWITCHYARD UPGRADE (1R11)	RAP-069-90-0202	U1		1 April 1992	7 December 1993	TARGET SCHEDULE
10	1EC3208 SALEM UNIT 1 FIRE DAMPERS (1R11)	RAP-144-91-0001	N2	NRC/DKLT/89-07-20-01	21 September 1992	3 December 1993	TARGET SCHEDULE
11	1SC2267 SEC ATI RESTORATION (OUTAGE) (1R11)	RAP-069-90-0243	U1		30 November 1992	10 December 1993	TARGET SCHEDULE
12	1SC2163 SYNCHRO RELAYS FOR MAIN DG (1R11)	RAP-148-90-0010	U1		16 December 1992	10 December 1993	TARGET SCHEDULE
13	1SC2164 SYNCHRO RELAYS FOR EDG (1R11)	RAP-148-90-0010	U1		16 December 1992	10 December 1993	TARGET SCHEDULE
14	1EC3240 TURBINE SUPERVISORY (1R11)	RAP-			18 January 1993	10 December 1993	CONCEPTUAL SCHEDULE
15	1EC MAIN STEAM FLOW MEASURE (1R11)	RAP-148-90-0028	U1		10 August 1992	10 December 1993	CONCEPTUAL SCHEDULE

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(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2.\*

**PUBLIC SERVICE ELECTRIC & GAS  
E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

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<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 1 11TH REFUELING OUTAGE</u></b>					<b>(BREAKER OPEN 10/02/93 - BREAKER CLOSED 12/12/93)</b>		

**SALEM PROJECTS-N. LEECH**

16	1EC CRDM CLAMPS/OVERLAY FIXES (1R11)	RAP-069-90-0295	N2	NRC/DKLT/88-11-17	4 November 1992	15 April 1993	TARGET SCHEDULE
17	1EC3220 AUX FEED FLOW MODS (1R11)	RAP-122-91-0001	N2	NSO/LER/272/91-03600	1 May 1992	26 November 1993	TARGET SCHEDULE
18	1EC3219 PORV MODS (1R11)	RAP-148-90-0049	N2	NRC/NREG/0737-II.D.1	12 July 1990	30 November 1993	CONCEPTUAL SCHEDULE
19	1EC STM.GENERATOR NOZZLE REPLACEMENT (1R11)	RAP-125-92-2001	N2	NSO/LER/272/92-014	27 April 1993	18 November 1993	CONCEPTUAL SCHEDULE
20	1EC STEAM GENERATOR THERMAL SLEEVE (1R11)	RAP-125-92-2001	N2		11 September 1992	10 December 1993	CONCEPTUAL SCHEDULE
21	1SC HEBA MEBA PROJECT (1R11)	RAP-128-90-0007	U1		14 April 1993	10 December 1993	CONCEPTUAL SCHEDULE
22	1EC REACTOR HEAD VENT - PRELIM. (1R11)	RAP-125-91-4001	N2	WEST/SALE/PSE-90-743	29 January 1993	29 November 1993	CONCEPTUAL SCHEDULE
23	1EC SGF PIPE (EROSN/CORRSN) - PRELIM.(1R11)	RAP-125-91-0003	U1		6 July 1993	30 November 1993	CONCEPTUAL SCHEDULE
24	1EC3167 COPEL VULCAN VLV PPG HGR MODS (1R11)	RAP-125-90-0002	N2	NRC/INFO/90-17	1 March 1992	13 December 1993	CONCEPTUAL SCHEDULE
25	1EC3243 SGF PRESSURE REDUCTION - PRELIM.(1R11)	RAP- - -			29 January 1993	10 December 1993	CONCEPTUAL SCHEDULE

**REVITALIZATION-M. METCALF**

26	1EC3226 VL02-I..GB4 & AF23 VLV MODIFCTNS (1R11)	RAP-129-91-0002	U1		3 November 1992	19 November 1993	TARGET SCHEDULE
27	1EC WG01-V..WASTE GAS SYS UPGRADES (1R11)	RAP-129-91-0048	U1		24 May 1993	18 November 1993	TARGET SCHEDULE

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(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

**PUBLIC SERVICE ELECTRIC & GAS**  
**E&PB INTEGRATED SCHEDULE PROGRAM**  
**PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

02/26/93

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b>SALEM UNIT 1 11TH REFUELING OUTAGE</b>					<b>(BREAKER OPEN 10/02/93 - BREAKER CLOSED 12/12/93)</b>		
<b>REVITALIZATION-M. METCALF</b>							
28	1EC3206 CM02-V..DIGITIZE FDWTR CTRL SYS (1R11)	RAP-129-91-0053	U1		22 September 1992	4 February 1994	TARGET SCHEDULE
29	1EC3156 CP01-I..COND/PLSHNG STRUCTRL STL (1R11)	RAP-129-91-0015	U1		27 September 1993	11 February 1994	TARGET SCHEDULE
30	1EC3202 HV05-V..HVAC MODS TO D/G BAYS (1R11)	RAP-129-91-0024	U1		21 December 1992	19 November 1993	TARGET SCHEDULE
31	1EC PG01-V..SECNDRY PPG/VLV REPLCMT (1R11)	RAP-129-91-0069	U1		2 July 1992	1 December 1993	TARGET SCHEDULE
32	1EC HV13-V..HVAC:UPGRD FLTR UNTS (1NO/1R11)	RAP-129-91-0032	U1		8 December 1992	30 November 1993	TARGET SCHEDULE
33	1EC EH01-V..UPGRADE TURBINE EHC SYS (1R11)	RAP-129-91-0063	U1		18 January 1993	25 January 1994	TARGET SCHEDULE
34	1EC3232 EH01-V..TURB EHC SKID UPGRDS (1R11)	RAP-129-91-0063	U1		18 January 1993	19 November 1993	TARGET SCHEDULE
35	1SC2297 CW08-V..CONTROL HSE	RAP-129-91-0085	U1		13 October 1992	15 February 1994	TARGET SCHEDULE
36	1SC2297 CW08-V..CONTROL HSE XGR TIE IN (1R11)	RAP-129-91-0085	U1		2 February 1993	16 February 1993	TARGET SCHEDULE
37	1EC3223 MP01-I..PLATFRMS,LADDRS & FENCES (1R11)	RAP-129-91-0016	U1		22 March 1993	4 February 1994	TARGET SCHEDULE
38	1EC EL08-V..ELECT:EMER LGHT INVER (1R11)	RAP-129-91-0074	U1		24 February 1993	29 October 1993	TARGET SCHEDULE
39	1EC3209 EL02-I..ELE:PAGE SYS-5 CHNNL (1R11)	RAP-129-91-0055	U1		4 October 1993	4 October 1993	TARGET SCHEDULE
40	1EC IC06-V..MISC I&C UPGRADES (1R11)	RAP-129-91-0091	U1		27 October 1992	23 December 1993	TARGET SCHEDULE
41	1EC3197 BF01-I..SGFD PMP CNTRL OIL SYS (1R11)	RAP-129-91-0008	U1		20 July 1992	19 January 1994	TARGET SCHEDULE

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 (i.e. DCP - Part A closed out)  
 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

**PUBLIC SERVICE ELECTRIC & GAS  
E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

02/26/93

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 1 11TH REFUELING OUTAGE</u></b>				<b>(BREAKER OPEN 10/02/93 - BREAKER CLOSED 12/12/93)</b>			
<b><u>REVITALIZATION-M. METCALF</u></b>							
42	1E02285 CW07-V..CIRC/WTR BRNG LUBE VLVS (1R11)	RAP-129-91-0018	U1		30 September 1993	13 January 1994	TARGET SCHEDULE
43	1SC2300 CW02-I..LOOP SEALS, VAC PUMP (1R11)	RAP-129-91-0018	U1		15 October 1992	11 February 1994	TARGET SCHEDULE
44	1EC3218 EL01-I..INSTLN OF PERM BACKUP PWR(1R11)	RAP-129-91-0039	U1		2 November 1992	18 January 1994	TARGET SCHEDULE
45	1EC___ BA01-V..BORIC ACID CONCTR REDCTN (1R11)	RAP-129-91-0081	U1		23 September 1992	9 December 1993	TARGET SCHEDULE
46	1EC3170 VL01-I..CA & NT VLV REPLACEMENT (1R11)	RAP-129-91-0014	U1		2 November 1992	19 January 1994	TARGET SCHEDULE
47	1EC___ CA02-V..UPGRD STN & CTRL AIR (1R11)	RAP-129-91-0064	U1		17 July 1992	26 October 1993	TARGET SCHEDULE
48	1EC___ ELX -V..4KV SWHGEAR MAINTENANCE (1R11)	RAP-129-91-0044	U1		20 September 1993	15 November 1993	TARGET SCHEDULE
49	1EC___ HV10-V..HVAC:INBRD/OUTBRD PENTRN (1R11)	RAP-129-91-0029	U1		2 January 1992	30 November 1993	TARGET SCHEDULE
50	1SC2299 CW02-I..MANWAYS & WTRBOX COATNG (1R11)	RAP-129-91-0018	U1		15 October 1992	22 March 1994	TARGET SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
 Installation finish occurs when installation is approved for service.  
 (i.e. DCP - Part A closed out)  
 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

02/26/93

# PUBLIC SERVICE ELECTRIC & GAS E&PB INTEGRATED SCHEDULE PROGRAM PROJECT STATUS REPORT - PERIOD ENDING -01/29/93

ITEM NO	PROJECT	NDRAP #	ISP CAT	REGULATORY ITEM	INITIATION START	INSTALLATION FINISH	COMMENTS
<b><u>SALEM UNIT 1 NON-OUTAGE WORK</u></b>							
<b><u>SALEM PROJECTS-N. LEECH</u></b>							
1	1EC ___ RMS-R41'S (PILOT)-PRELIM. (1NO)	RAP-148-90-0048	N2	NRC/OPEN/272-89-10F1	22 May 1992	5 November 1993	CONCEPTUAL SCHEDULE
2	1EC ___ RMS FULL REPLACEMENT - PRELIM. (1&2NO)	RAP-148-90-0048	N2	NRC/OPEN/272-89-10F1	1 June 1994	6 November 1995	CONCEPTUAL SCHEDULE
3	2S000231 VICTOREEN DOOR REPLACEMENT (1NO)	RAP-148-90-0048	N2		29 January 1993	8 February 1993	TARGET SCHEDULE
4	1EC3184 SALEM BLACKOUT PROJ-COMPR AIR SYS(1N/O)	RAP-144-90-0040	N1	NRC/CODE/10CFR50.63	15 June 1992	3 December 1993	TARGET SCHEDULE
5	1EC3189 SALEM BLACKOUT- "C" BATT RM HTRS (1N/O)	RAP-144-90-0040	N1	NRC/CODE/10CFR50.63	15 June 1992	29 December 1993	TARGET SCHEDULE
6	1EC ___ GROUND WATER DIVERSION (1NO)	RAP-121-90-0007	U1		4 February 1993	4 November 1994	CONCEPTUAL SCHEDULE
7	1EC ___ NRW AMMONIA HYDRAZINE (1NO)	RAP-121-90-0014	E2		12 October 1992	15 March 1994	CONCEPTUAL SCHEDULE
8	1EC3217 FIRE PUMP DIESEL (NO)	RAP-069-92-0452	U1		16 November 1992	26 November 1993	CONCEPTUAL SCHEDULE
9	1EC3135 ERDS-SALEM NRC. LINK (NO)	RAP-126-91-0006	N1	NRC/CODE/10CFR50APPE	28 December 1992	12 February 1993	TARGET SCHEDULE
10	1EC3193 SALEM OIL WATER SEPARATOR PROJECT(1N/O)	RAP-121-90-0004	E2		15 July 1992	26 November 1993	TARGET SCHEDULE
11	1EC ___ UNIT 3 SPILL CONTAINMENT (NO)	RAP-069-90-0375	E2		1 January 1993	16 September 1993	CONCEPTUAL SCHEDULE
12	1EC ___ MAIN FUEL OIL STORAGE TANK (1NO)	RAP-121-90-0022	E2		29 January 1993	8 February 1994	CONCEPTUAL SCHEDULE
13	1EC3204 HEATING BOILER DRAINAGE (1NO)	RAP-069-90-0420	E2		30 September 1992	7 September 1993	CONCEPTUAL SCHEDULE
14	1SC2269 500-13.8KV SWITCHYARD UPGRADE (1NO)	RAP-069-90-0202	U1		20 December 1991	7 December 1993	TARGET SCHEDULE
15	1EC3208 SALEM UNIT 1 FIRE DAMPERS (1NO)	RAP-144-91-0001	N2	NRC/DKLT/89-07-20-01	21 September 1992	20 September 1994	TARGET SCHEDULE

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Installation finish occurs when installation is approved for service.  
(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

**PUBLIC SERVICE ELECTRIC & GAS  
E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

02/26/93

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 1 NON-OUTAGE WORK</u></b>							
<b><u>SALEM PROJECTS-N. LEECH</u></b>							
16	1EC___ MSIV ISSUES (1NO)	RAP-125-91-3003	U1		7 August 1992	29 March 1993	CONCEPTUAL SCHEDULE
17	1SC___ HEBA MEBA PROJECT (1NO)	RAP-128-90-0007	U1		21 August 1992	15 February 1995	CONCEPTUAL SCHEDULE
18	1EZ___ HEBA/HEBA PROJECT (1NO)	RAP-128-90-0007	U1		1 August 1995	24 October 1995	CONCEPTUAL SCHEDULE
19	1EC___ NRC 87-02 A-46 SQUG - PRELIM. (1&2NO)	RAP-128-90-0004	N2	NRC/GL/87-02	10 September 1992	24 May 1995	CONCEPTUAL SCHEDULE
20	1EC3046 REPLACE BORIC ACID TRANSFER PUMPS (1NO)	RAP-069-90-0300	U1	NSO/INCI/89-792	22 February 1993	4 March 1993	CONCEPTUAL SCHEDULE
<b><u>REVITALIZATION-M. METCALF</u></b>							
21	1EC___ WLO2-I..AUX BLDG FLR DRN GAS MOD (1NO)	RAP-129-91-0004	U1		14 April 1993	12 January 1994	TARGET SCHEDULE
22	1EC3157 CP01- I..DEMIN/WTR MOD(88-EL TGA) (1NO)	RAP-129-91-0015	U1		29 June 1992	13 April 1993	TARGET SCHEDULE
23	1EC3216 IC03-I..BORC ACID EVPR.I&C UPGRD (1NO)	RAP-129-91-0058	U1		26 October 1992	8 November 1993	TARGET SCHEDULE
24	1EC3216 IC03-I..UPGRD INSTRUMTN-BAT PMPs (1NO)	RAP-129-91-0058	U1		26 October 1992	7 June 1993	TARGET SCHEDULE
25	1EC___ IC05-V..UPGR VARIOUS INSTR&CNTRL (1NO)	RAP-129-91-0092	U1		3 January 1994	25 February 1994	TARGET SCHEDULE
26	1EC___ CM04-V..REPLACE P-250 COMPTR SYS (1NO)	RAP-129-91-0072	U1		2 November 1994	31 January 1995	TARGET SCHEDULE
27	2EC___ HV07- V..HVAC:FUEL HDLG BLD UPGRD (1NO)	RAP-129-91-0026	U1		13 October 1992	21 September 1993	TARGET SCHEDULE
28	1EC___ PG01-V..SECNDRY PPG/VLV REPLCMNT (1NO)	RAP-129-91-0069	U1		2 July 1992	15 November 1996	TARGET SCHEDULE

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(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

**PUBLIC SERVICE ELECTRIC & GAS**  
**E&PB INTEGRATED SCHEDULE PROGRAM**  
**PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

02/26/93

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 1 NON-OUTAGE WORK</u></b>							
<b><u>REVITALIZATION-M. METCALF</u></b>							
29	1EC HV13-V..HVAC:UPGRD FLTR UNTS (1NO)	RAP-129-91-0032	U1		2 August 1993	13 September 1993	TARGET SCHEDULE
30	1EC HV04-V..HVAC:TURB-GEN AREA UPGRD (1NO)	RAP-129-91-0023	U1		17 June 1991	3 January 1994	TARGET SCHEDULE
31	1EC3138 IC01-I..UPGRD RDWSTE 104 CNTL PL (1NO)	RAP-129-91-0059	U1		30 June 1992	2 February 1993	TARGET SCHEDULE
32	1EC MP02-V..ADD PLTFRM, GRDRL, MONORL (1NO)	RAP-129-91-0087	U1		1 September 1994	1 February 1995	TARGET SCHEDULE
33	1EC WLO4-V..WASTE LIQUID SYS UPGRADE (1NO)	RAP-129-91-0050	U1		13 April 1992	28 July 1994	TARGET SCHEDULE
34	1EC SW01-V..REPLACE SERV WATER PMP (1NO)	RAP-069-91-0443	U1		15 April 1993	14 September 1994	TARGET SCHEDULE
35	1EC II02-V..INCORE SYS ELEC UPGRADES (1NO)	RAP-129-92-0102	U1		4 November 1991	18 February 1994	TARGET SCHEDULE
36	1EC3210 CW08-V..ELEC/I&C MODS-VAC/BRKRS (1NO)	RAP-129-91-0085	U1		16 November 1992	5 May 1993	TARGET SCHEDULE
37	1SC2298 CW08-V..SWXGR HSE & TRENCH (1NO)	RAP-129-91-0085	U1		13 October 1992	24 November 1993	TARGET SCHEDULE
38	1EE0012 CW08-V..ELEC PWR-TRVL/SCRN LYDWN (1NO)	RAP-129-91-0085	U1		16 November 1992	30 March 1993	TARGET SCHEDULE
39	1EC CM03-V..REPLACE DORIC COMPTN SYS (1NO)	RAP-129-91-0079	U1		30 September 1994	24 November 1994	TARGET SCHEDULE
40	1EC3222 MP01-I..PLATFRMS, LADDRS & FENCES (1NO)	RAP-129-91-0016	U1		1 June 1993	8 June 1994	TARGET SCHEDULE
41	1EC3209 EL02-I..ELE:PAGE SYS-5 CHNLL (1NO)	RAP-129-91-0055	U1		5 October 1992	14 December 1993	TARGET SCHEDULE
42	1EC DW02-V..DM PLNT CNTRL & CP UPGRD (1NO)	RAP-129-91-0020	U1		16 March 1992	4 April 1994	TARGET SCHEDULE
43	1EC CP02-V..WTR SYS REFURBMNT/UPGRDS (1NO)	RAP-129-91-0020	U1		13 May 1994	7 July 1994	TARGET SCHEDULE

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 (i.e. DCP - Part A closed out)  
 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

**PUBLIC SERVICE ELECTRIC & GAS  
E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

02/26/93

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 1 NON-OUTAGE WORK</u></b>							
<b><u>REVITALIZATION-M. METCALF</u></b>							
44	1EC3197 BF01-I SGFD PMP CNTRL OIL SYS (1NO)	RAP-129-91-0008	U1		27 August 1993	1 October 1993	TARGET SCHEDULE
45	1EC WL01-I..ADD MISC DRNS & LINES (1NO)	RAP-129-91-0007	U1		12 March 1993	19 January 1994	TARGET SCHEDULE
46	1EC PLO1-V..VARIOUS PWR&LGHTG IMPRVM (1NO)	RAP-129-91-0086	U1		13 August 1991	4 January 1995	TARGET SCHEDULE
47	1EC CW02-I..CIRC WATER OUTAGE RELATD (1NO)	RAP-129-91-0018	U1		2 February 1993	19 September 1994	TARGET SCHEDULE
48	1EC CW08-I..CIRC WTR UPGRADES UNIFIED (1NO)	RAP-129-91-0018	U1		2 February 1993	19 September 1994	TARGET SCHEDULE
49	1EC3199 CW07- V..CIRC/WTR DIVDG WALL/VENT (1NO)	RAP-129-91-0018	U1		12 October 1992	5 April 1993	TARGET SCHEDULE
50	CW07- I..STRUCTURAL STEEL REPAIRS (1NO)	RAP-129-91-0018	U1		15 October 1992	7 April 1993	TARGET SCHEDULE
51	1EA1036 CW08- I..CHLORINATION ELEC DESIGN (1NO)	RAP-129-91-0018	U1		8 December 1992	16 July 1993	TARGET SCHEDULE
52	1EC3198 CW07- V..CIRC/WTR CATHODIC PRTCTN (1NO)	RAP-129-91-0018	U1		30 September 1992	4 March 1993	TARGET SCHEDULE
53	1EC3230 CW08-I..CWIS TRASH RAKE (1NO)	RAP-129-91-0018	U1		4 October 1993	20 December 1994	TARGET SCHEDULE
54	1EE0005 CW07-V..INTAKE STRUCTR RF REPAIR (1NO)	RAP-129-91-0018	U1		28 October 1992	4 March 1993	TARGET SCHEDULE
55	1EE0006 CW07-V..CW PMP STUFNG BOX/ DRNS (1NO)	RAP-129-91-0018	U1		12 October 1992	30 March 1993	TARGET SCHEDULE
56	1EE0007 CW08-V..LGHTNG BEHIND TRV/SCRNS (1NO)	RAP-129-91-0018	U1		12 October 1992	4 March 1993	TARGET SCHEDULE
57	1EO2287 CW07- V..CIRC/WTR BRNG LUBE STRNR (1NO)	RAP-129-91-0018	U1		5 November 1992	24 March 1993	TARGET SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
Installation finish occurs when installation is approved for service.  
(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

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**PUBLIC SERVICE ELECTRIC & GAS**  
**E&PB INTEGRATED SCHEDULE PROGRAM**  
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<b><u>SALEM UNIT 1 NON-OUTAGE WORK</u></b>							
<b><u>REVITALIZATION-M. METCALF</u></b>							
58	1EC___ FH01-V..FUEL HDLG/SPENT FUEL PL (1NO)	RAP-129-91-0076	U1		3 December 1993	28 January 1994	TARGET SCHEDULE
59	1EC3213 SA01-I..UPGRD STN AIR COMP COLER (1NO)	RAP-129-91-0003	U1		6 October 1992	28 February 1994	TARGET SCHEDULE
60	1EC3176 CA01-I..CNTRL AIR/DRYER RPLCMNT (1NO)	RAP-129-91-0010	U1		29 September 1992	5 March 1993	TARGET SCHEDULE
61	1EC___ EL03-I..PWR-TURB BLD STAG'G AREA (1NO)	RAP-129-91-0012	U1		23 November 1992	9 February 1993	TARGET SCHEDULE
62	1EC3195 FC01-I..LUBE OIL STORGE FACILITY (1NO)	RAP-129-91-0011	U1		22 October 1992	15 March 1993	TARGET SCHEDULE
63	1EC3123 AF02-V..AUX FD/WTR HYDRAZINE MOD (1NO)	RAP-069-90-0257	U1		13 January 1992	16 February 1993	TARGET SCHEDULE
64	1EC___ RP03-V..REPL U1 CONTNMNT APD PMP (1NO)	RAP-069-90-0149	U1		23 February 1993	9 August 1993	TARGET SCHEDULE
65	1EC___ CA02-V..UPGRD STN & CTRL AIR (1NO)	RAP-129-91-0064	U1		12 August 1993	9 September 1993	TARGET SCHEDULE
66	1EO2300 RP01-I..FUEL HDLNG DR-ELIM T-MOD (1NO)	RAP-069-90-0075	U1		5 March 1993	9 April 1993	TARGET SCHEDULE
67	1EO2301 RP01-I..AUX BLDG DR(ELIM T-MOD) (1NO)	RAP-069-90-0075	U1		16 November 1992	7 September 1993	TARGET SCHEDULE
68	1EC___ DW01-V..DEMINT WTR MAKE-UP UPGRD (1NO)	RAP-129-91-0020	U1		16 March 1992	11 April 1994	TARGET SCHEDULE
69	1EC___ CV01-V..CVL:FIX/SEAL AUX BLD LKG (1NO)	RAP-129-91-0071	U1		24 October 1991	2 May 1994	TARGET SCHEDULE
70	1EC___ IC04-V..REPLACE ASCO SOLNID VLVS (1NO)	RAP-129-91-0093	U1		6 July 1994	30 August 1994	TARGET SCHEDULE
71	1EC___ CW06-V..CIRC WTR STRUCTURE UPGRD (1NO)	RAP-129-91-0018	U1		27 March 1992	27 July 1994	TARGET SCHEDULE

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 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

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<b><u>SALEM UNIT 1 NON-OUTAGE WORK</u></b>							
<b><u>REVITALIZATION-M. METCALF</u></b>							
72	1SC2295 CW08-V..SCREEN WASH PUMPS (1NO)	RAP-129-91-0018	U1		8 October 1992	4 January 1994	TARGET SCHEDULE
73	1SC2296 CW02-I..REPAIR WATERBOX STIFFNRS (1NO)	RAP-129-91-0018	U1		16 November 1992	15 November 1994	TARGET SCHEDULE
74	1EE0011 CW08-V..BLWDWN VLVS-138 TRV/SCRN (1NO)	RAP-129-91-0018	U1		15 December 1992	6 April 1993	TARGET SCHEDULE
75	1EO2293 CW08-V..MOD SCRNV/WSH PMP SHAFTS (1NO)	RAP-129-91-0018	U1		2 February 1993	30 April 1993	TARGET SCHEDULE
76	1EC TC01-V..WTHR RESSTNCE/TURB CRANE (1NO)	RAP-129-91-0045	U1		2 February 1993	17 February 1994	TARGET SCHEDULE
77	1EC FP01-V..FIRE PROTECT SYS UPGRADE (1NO)	RAP- - -	U1		12 July 1993	16 March 1994	TARGET SCHEDULE
78	1EC FP03-V..TMPR SWITCH(T-MOD REMVL) (1NO)	RAP- - -	U1		18 January 1993	7 May 1993	TARGET SCHEDULE
79	1EE0015 FP03-V..TMPR/SWTCHS..ELIM T-MOD (1NO)	RAP- - -	U1		16 November 1992	16 March 1993	TARGET SCHEDULE
80	1EC HV23-V..SERV BLDG VENTLATN SYS (1NO)	RAP- - -	U1		18 January 1993	22 March 1993	TARGET SCHEDULE

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 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

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<b><u>SALEM UNIT 2 NON-OUTAGE WORK</u></b>							
<b><u>SALEM PROJECTS-N. LEECH</u></b>							
1	2EC3057 C.R. - PHS III - TELECOMMUNICATNS (2NO)	RAP-069-90-0236	N2		5 October 1993	18 October 1993	TARGET SCHEDULE
2	2EC3163 SALEM BLACKOUT- "C" BATT RM HTRS (2N/O)	RAP-144-90-0040	N1	NRC/CODE/10CFR50.63	15 June 1992	29 December 1993	TARGET SCHEDULE
3	2EC3179 SALEM UNIT 2 FIRE DAMPERS (2NO)	RAP-144-91-0001	N2	NRC/DKLT/89-07-20-01	21 September 1992	20 September 1994	TARGET SCHEDULE
4	2SC _____ HEBA MEBA PROJECT (2NO)	RAP-128-90-0007	U1		25 August 1993	15 July 1994	CONCEPTUAL SCHEDULE
5	2EZ _____ HEBA/HEBA PROJECT (2NO)	RAP-128-90-0007	U1		8 February 1995	18 August 1995	CONCEPTUAL SCHEDULE
6	2EC _____ DEMIN WTR STORAGE TANK - PRELIM. (2R8)	RAP-069-90-0225	U1		4 February 1993	4 November 1994	CONCEPTUAL SCHEDULE
<b><u>REVITALIZATION-M. METCALF</u></b>							
7	2EC _____ WL02-I..AUX BLDG FLR DRN GAS MOD (2NO)	RAP-129-91-0004	U1		14 April 1993	13 January 1994	TARGET SCHEDULE
8	2EC3138 CP01- I..DEMIN/WTR MOD(88-EL TGA) (2NO)	RAP-129-91-0015	U1		11 August 1992	7 June 1993	TARGET SCHEDULE
9	1EC3216 IC03-I..BORC ACID EVPR.I&C UPGRD (2NO)	RAP-129-91-0058	U1		26 October 1992	15 December 1993	TARGET SCHEDULE
10	1EC3216 IC03-I..UPGRD INSTRUMTN-BAT PMPs (2NO)	RAP-129-91-0058	U1		26 October 1992	8 June 1993	TARGET SCHEDULE
11	2EC _____ IC05-V..UPGR VARIOUS INSTR&CNTRL (2NO)	RAP-129-91-0092	U1		28 February 1994	22 April 1994	TARGET SCHEDULE
12	2EC _____ CM04-V..REPLACE P-250 COMPTR SYS (2NO)	RAP-129-91-0072	U1		2 May 1994	29 July 1994	TARGET SCHEDULE
13	2EC _____ HV07- V..HVAC:FUEL HNDLG BLD UPGD (2NO)	RAP-129-91-0026	U1		13 October 1992	9 November 1993	TARGET SCHEDULE

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(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

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<b><u>SALEM UNIT 2 NON-OUTAGE WORK</u></b>							
<b><u>REVITALIZATION-M. METCALF</u></b>							
14	2EC PG01-V..SECNDRY PPG/VLV REPLCMT (2NO)	RAP-129-91-0069	U1		2 July 1992	26 April 1996	TARGET SCHEDULE
15	2EC HV04-V..HVAC:TURB-GEN AREA UPGRD (2NO)	RAP-129-91-0023	U1		17 June 1991	20 September 1993	TARGET SCHEDULE
16	2EC3105 IC01-I..UPGRD RAD/WAS CNTL PNL (2NO)	RAP-129-91-0059	U1		6 August 1992	25 June 1993	TARGET SCHEDULE
17	2EC MP02-V..ADD PLTFRM,GRDRL,MONORL (2NO)	RAP-129-91-0087	U1		7 March 1994	24 June 1994	TARGET SCHEDULE
18	2EC WL04-V..WASTE LIQUID SYS UPGRADE (2NO)	RAP-129-91-0050	U1		13 April 1992	26 August 1994	TARGET SCHEDULE
19	2EC SW01-V..REPLACE SERV WTR PUMPS (2NO)	RAP-069-91-0443	U1		3 January 1994	14 September 1994	TARGET SCHEDULE
20	2EC I102-V..INCORE SYS ELEC UPGRADES (2NO)	RAP-129-92-0102	U1		4 November 1991	25 February 1994	TARGET SCHEDULE
21	1EC3210 CW08-V..ELEC/I&C MODS-VAC/BRKRS (2NO)	RAP-129-91-0085	U1		16 November 1992	10 February 1993	TARGET SCHEDULE
22	1SC2298 CW08-V..SWXGR HSE & TRENCH (2NO)	RAP-129-91-0085	U1		13 October 1992	7 September 1993	TARGET SCHEDULE
23	2EC CM03-V..REPLACE DORIC COMPTR SYS (2NO)	RAP-129-91-0079	U1		27 September 1995	21 November 1995	TARGET SCHEDULE
24	2EC3194 MP01-I..PLATFRMS,LADDRS & FENCES (2NO)	RAP-129-91-0016	U1		1 June 1993	8 June 1994	TARGET SCHEDULE
25	1EC3209 EL02-I..ELE:PAGE SYS-5 CHNNL (2NO)	RAP-129-91-0055	U1		5 October 1992	14 December 1993	TARGET SCHEDULE
26	2EC HV19-V..RELOCAT PACU-23 CMC SWTH (2NO)	RAP-129-92-0103	U1		6 March 1992	7 October 1993	TARGET SCHEDULE
27	2EC CP02-V..WTR SYS REFURBMNT/UPGRDS (2NO)	RAP-129-91-0020	U1		13 May 1994	7 July 1994	TARGET SCHEDULE
28	2EC3170 BF01-I..SGFD PMP CNTRL OIL SYS (2NO)	RAP-129-91-0008	U1		23 February 1993	29 March 1993	TARGET SCHEDULE

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 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

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<b><u>SALEM UNIT 2 NON-OUTAGE WORK</u></b>							
<b><u>REVITALIZATION-M. METCALF</u></b>							
29	2EC WL01-I..ADD MISC DRAINS & LINES (2NO)	RAP-129-91-0007	U1		12 March 1993	7 January 1994	TARGET SCHEDULE
30	2EC PL01-V..VARIOUS PWR&LHTG IMPRVM (2NO)	RAP-129-91-0086	U1		13 August 1991	9 January 1995	TARGET SCHEDULE
31	1EC3211 CW08-V..BEARING LUBE WTR INST (2NO)	RAP-129-91-0018	U1		3 December 1992	23 April 1993	TARGET SCHEDULE
32	2EC CW02-I..CIRC WATER OUTAGE RELATD (2NO)	RAP-129-91-0018	U1		2 February 1993	30 November 1994	TARGET SCHEDULE
33	2EO2282 CW07- V..CIRC/WTR BRNG LUBE STRNR (2NO)	RAP-129-91-0018	U1		5 November 1992	24 March 1993	TARGET SCHEDULE
34	1EC3212 CW08-V..REPLACE P787 PANELS (2NO)	RAP-129-91-0018	U1		23 November 1992	6 April 1993	TARGET SCHEDULE
35	2EC CW08..CIRC WATER UPGRADES UNIFIED (2NO)	RAP-129-91-0018	U1		2 February 1993	30 November 1994	TARGET SCHEDULE
36	2EO2285 CW07-V..VACUUM BRKRS & GOOSNECKS (2NO)	RAP-129-91-0018	U1		12 October 1992	4 March 1993	TARGET SCHEDULE
37	2EC FH01-V..FUEL HNDLG/SPENT FUEL PL (2NO)	RAP-129-91-0076	U1		6 June 1994	29 July 1994	TARGET SCHEDULE
38	2EC3109 AF01- I..AUX/FEED TACH & T/C INST (2NO)	RAP-129-91-0046	U1		21 August 1992	11 February 1993	TARGET SCHEDULE
39	2EC FP03-V..TMPR SWITCH(T-MOD REMVL) (2NO)	RAP- - -	U1		16 November 1992	7 May 1993	TARGET SCHEDULE
40	1EC3176 CA01-I..CNTRL AIR/DRYER RPLCMNT (2NO)	RAP-129-91-0010	U1		29 September 1992	5 March 1993	TARGET SCHEDULE
41	2EC CA02-V..UPGRADE STATN & CTRL AIR (2NO)	RAP-129-91-0064	U1		12 August 1993	9 September 1993	TARGET SCHEDULE
42	1EO2300 RP01-I..FUEL HDLNG DR-ELIM T-MOD (2NO)	RAP-069-90-0075	U1		16 November 1992	7 September 1993	TARGET SCHEDULE
43	2EC CV01- V..CVL:FIX/SEAL AUX BLD LKG (2NO)	RAP-129-91-0071	U1		24 October 1991	5 May 1994	TARGET SCHEDULE

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TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

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<b><u>SALEM UNIT 2 NON-OUTAGE WORK</u></b>							
<b><u>REVITALIZATION-M. METCALF</u></b>							
44	2EC 1C04-V..REPLCE ASCO SOLENOID VLV (2NO)	RAP-129-91-0093	U1		6 July 1994	30 August 1994	TARGET SCHEDULE
45	1SC2295 CW08-V..SCREEN WASH PUMPS (2NO)	RAP-129-91-0018	U1		8 October 1992	22 March 1994	TARGET SCHEDULE
46	1SC2296 CW02-I..REPAIR WATERBOX STIFFNRS (2NO)	RAP-129-91-0018	U1		16 November 1992	15 November 1994	TARGET SCHEDULE
47	2EC TC01-V..WEATHR RESIST/TURB CRANE (2NO)	RAP-129-91-0045	U1		2 February 1993	7 April 1994	TARGET SCHEDULE
48	1EE0015 FP03- V..TMPR/SWTCHS..ELIM T- MOD (2NO)	RAP- - -	U1		1 February 1993	12 February 1993	TARGET SCHEDULE

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\* report: ilrp2 \*

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<b><u>SALEM UNIT 2 8TH REFUELING OUTAGE</u></b>				<b>(BREAKER OPEN 09/17/94 - BREAKER CLOSED 11/05/94)</b>			
<b><u>SALEM PROJECTS-N. LEECH</u></b>							
1	2EC RMS FULL REPLACEMENT-PRELIM. (2R8)	RAP-148-90-0048	N2	NRC/OPEN/272-89-10F1	1 June 1994	4 November 1994	CONCEPTUAL SCHEDULE
2	2EC REPLACE ROOM COOLERS (2R8)	RAP-069-92-0449	U1		1 December 1992	25 October 1994	CONCEPTUAL SCHEDULE
3	1SC2269 500-13.8KV SWITCHYARD UPGRADE (2R8)	RAP-069-90-0202	U1		1 April 1992	4 November 1994	CONCEPTUAL SCHEDULE
4	2EC3179 SALEM UNIT 2 FIRE DAMPERS (2R8)	RAP-144-91-0001	N2	NRC/DKLT/89-07-20-01	28 December 1992	28 October 1994	CONCEPTUAL SCHEDULE
5	2EC3186 UNIT 2 ST-901 PIPING (2R8)	RAP-144-91-0010	U1		4 January 1994	20 October 1994	CONCEPTUAL SCHEDULE
6	2EC3185 UNIT 2 STEAM GENERATOR FEED PIPING(2R8)	RAP-144-91-0008	U1		4 January 1994	20 October 1994	CONCEPTUAL SCHEDULE
7	2EC3187 UNIT 2 STATION AIR COMPRESSOR PIPG(2R8)	RAP-144-91-0009	U1		4 January 1994	28 October 1994	CONCEPTUAL SCHEDULE
8	2EC3188 UNIT 2 ADDED TURBINE AUX COOLING (2R8)	RAP-144-91-0006	U1		4 January 1994	20 October 1994	CONCEPTUAL SCHEDULE
9	2EC MAIN STEAM FLOW MEASURE (2R8)	RAP-148-90-0028	U1		7 October 1993	4 November 1994	CONCEPTUAL SCHEDULE
10	2EC AUX FEED FLOW MODS (2R8)	RAP-122-91-0001	N2	NSO/LER/272/91-03600	29 January 1993	4 November 1994	CONCEPTUAL SCHEDULE
11	2EC CHARGING PUMPS - AUTO RECIRC VLVS (2R8)	RAP-069-91-0448	N2		28 August 1992	4 November 1994	CONCEPTUAL SCHEDULE
12	2EC CONTAINMENT LINER PLATE - PRELIM. (2R8)	RAP-125-91-1000	N2	NRC/OPEN/311-90-8121	4 February 1993	4 November 1994	CONCEPTUAL SCHEDULE
13	2SC HEBA MEBA PROJECT (2R8)	RAP-128-90-0007	U1		13 December 1993	4 November 1994	CONCEPTUAL SCHEDULE
14	2EC REG GUIDE 1.97 (2R8)	RAP-126-91-0017	N2	NRC/VIOL/272/89-1304	28 May 1992	8 February 1995	CONCEPTUAL SCHEDULE
15	2EC RX HEAD VENT - PRELIM. (2R8)	RAP-125-91-4001	N2	WEST/SALE/PSE-90-743	1 September 1993	30 September 1994	CONCEPTUAL SCHEDULE

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\* report: ilrp2 \*

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<b><u>SALEM UNIT 2 8TH REFUELING OUTAGE</u></b>				<b>(BREAKER OPEN 09/17/94 - BREAKER CLOSED 11/05/94)</b>			
<b><u>SALEM PROJECTS-N. LEECH</u></b>							
16	2EC CFCU MOTOR COOLERS-PRELIM. (2R8)	RAP-069-92-0450	U1		4 February 1993	29 April 1996	CONCEPTUAL SCHEDULE
<b><u>REVITALIZATION-M. METCALF</u></b>							
17	2EC EL07-V..ELECT:IMPRV CMPNT MAIN (2R8)	RAP-129-91-0084	U1		9 February 1993	28 October 1994	CONCEPTUAL SCHEDULE
18	2EC EL09-V..REPL INSTR RLYS AC/SWGR (2R8)	RAP-129-92-0096	U1		24 May 1993	28 October 1994	CONCEPTUAL SCHEDULE
19	2EC3197 VL02-I..GB4 & AF23 VLV MODIFCTNS (2R8)	RAP-129-91-0002	U1		7 January 1993	13 January 1995	CONCEPTUAL SCHEDULE
20	2EC WG01-V..WASTE GAS SYS UPGRADES (2R8)	RAP-129-91-0048	U1		24 May 1993	31 October 1994	CONCEPTUAL SCHEDULE
21	2EC3178 CM02-V..DIGITIZE FDWTR CTRL SYS (2R8)	RAP-129-91-0053	U1		22 March 1993	9 January 1995	CONCEPTUAL SCHEDULE
22	2EC SG01-V..STM GEN FEEDPUMP CONTROL (2R8)	RAP-129-91-0078	U1		2 February 1993	11 November 1994	CONCEPTUAL SCHEDULE
23	2EC HV06-V..HVAC:AUX BLDG REFURB (2R8)	RAP-129-91-0025	U1		1 May 1992	28 October 1994	CONCEPTUAL SCHEDULE
24	2EC IC05-V..UPGR VARIOUS INSTR&CNTRL (2R8)	RAP-129-91-0092	U1		23 September 1992	20 October 1994	CONCEPTUAL SCHEDULE
25	2EC CM04-V..REPLACE P-250 COMPTR SYS (2R8)	RAP-129-91-0072	U1		18 March 1992	2 December 1994	CONCEPTUAL SCHEDULE
26	2EC PG01-V..SECNDRY PPG/VLV REPLCMNT (2R8)	RAP-129-91-0069	U1		2 July 1992	4 November 1994	CONCEPTUAL SCHEDULE
27	2EC HV03-V..HVAC:SPAV REFURB (2R8)	RAP-129-91-0022	U1		16 March 1992	28 October 1994	CONCEPTUAL SCHEDULE
28	2EC MP02-V..ADD PLTFRM,GRDRL,MONORL (2R8)	RAP-129-91-0087	U1		7 August 1991	7 November 1994	CONCEPTUAL SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
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 (i.e. DCP - Part A closed out)  
 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*



02/26/93

**PUBLIC SERVICE ELECTRIC & GAS  
E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 2 8TH REFUELING OUTAGE</u></b>				<b>(BREAKER OPEN 09/17/94 - BREAKER CLOSED 11/05/94)</b>			
<b><u>REVITALIZATION-M. METCALF</u></b>							
29	1SC2297 CW08-V..CONTROL HSE XGR TIE IN (2R8)	RAP-129-91-0085	U1		1 February 1993	19 January 1995	CONCEPTUAL SCHEDULE
30	2EC PZ01-V..PRESRZR PPG&CBL RPLCMNT (2R8)	RAP-129-91-0065	U1		22 June 1992	11 November 1994	CONCEPTUAL SCHEDULE
31	2EC CM03-V..REPLACE DORIC COMPTR SYS (2R8)	RAP-129-91-0079	U1		23 April 1993	5 December 1995	CONCEPTUAL SCHEDULE
32	2EC3195 MP01- I..PLATFRMS,LADDRS & FENCES (2R8)	RAP-129-91-0016	U1		1 June 1993	9 January 1995	CONCEPTUAL SCHEDULE
33	2EC EL08- V..ELECT:EMER LIGHT INVER (2R8)	RAP-129-91-0074	U1		24 February 1993	14 October 1994	CONCEPTUAL SCHEDULE
34	2EC IC06-V..MISC I&C UPGRADES (2R8)	RAP-129-91-0091	U1		5 September 1994	19 October 1994	CONCEPTUAL SCHEDULE
35	2EC SG02-V..IMPRV STM GEN RELBLTY/M (2R8)	RAP-129-91-0047	U1		2 October 1992	4 November 1994	CONCEPTUAL SCHEDULE
36	2EC I101-V..INCORE SYS MECH UPGRADES (2R8)	RAP-129-91-0049	U1		5 August 1991	28 October 1994	CONCEPTUAL SCHEDULE
37	2EC CP02-V..WTR SYS REFURBMNT/UPGRDS (2R8)	RAP-129-91-0020	U1		16 March 1992	28 October 1994	CONCEPTUAL SCHEDULE
38	2EC VLO7-V..CP MAN & CNTRL VLV UPGRD (2R8)	RAP-129-91-0020	U1		16 March 1992	14 October 1994	CONCEPTUAL SCHEDULE
39	2EC TL01-V..TURB LUBE OIL UPGRADES (2R8)	RAP-129-91-0056	U1		23 November 1992	4 November 1994	CONCEPTUAL SCHEDULE
40	2SC2283 CW02-I..AR VLV/INGRSS MON/VAC PP (2R8)	RAP-129-91-0018	U1		5 October 1992	24 January 1995	CONCEPTUAL SCHEDULE
41	2EC FH01-V..FUEL HNDLG/SPENT FUEL PL (2R8)	RAP-129-91-0076	U1		23 July 1992	11 November 1994	CONCEPTUAL SCHEDULE
42	2EC MS01-V..REPLC L P MSR BUNDLS (2R8)	RAP-129-91-0051	U1		14 October 1991	11 November 1994	CONCEPTUAL SCHEDULE
43	2EC BA01-V..BORIC ACID CONCTR REDCTN (2R8)	RAP-129-91-0081	U1		23 September 1992	9 November 1994	CONCEPTUAL SCHEDULE

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\* report: ilrp2 \*

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**PUBLIC SERVICE ELECTRIC & GAS**  
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<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b>SALEM UNIT 2 8TH REFUELING OUTAGE</b>				<b>(BREAKER OPEN 09/17/94 - BREAKER CLOSED 11/05/94)</b>			
<b>REVITALIZATION-M. METCALF</b>							
44	2EC VL06-V..REPLC VC1-6 CNTMNT VLV (2R8)	RAP-129-91-0043	U1		1 October 1991	15 November 1994	CONCEPTUAL SCHEDULE
45	2EC FP02-V..FIRE DETECT SYS UPGRADE (2R8)	RAP- - -			4 May 1992	28 October 1994	CONCEPTUAL SCHEDULE
46	2EC HV21-V..EXPAND CNTRL RM ENVELOP (2R8)	RAP- - -			24 February 1992	28 October 1994	CONCEPTUAL SCHEDULE
47	2EC3173 CS01-V..CS6 VLV SPOOL RPLCMNT (2R8)	RAP-121-91-0080			16 September 1992	21 October 1994	CONCEPTUAL SCHEDULE
48	2EC3148 VL01-I..CA & NT VLV REPLACEMENT (2R8)	RAP-129-91-0014	U1		2 November 1992	30 December 1994	CONCEPTUAL SCHEDULE
49	2EC CA02-V..UPGRADE STATN & CTRL AIR (2R8)	RAP-129-91-0064	U1		17 July 1992	7 October 1994	CONCEPTUAL SCHEDULE
50	2EC HV10-V..HVAC:INBRD & OUTBRD PENE (2R8)	RAP-129-91-0029	U1		2 January 1992	11 November 1994	CONCEPTUAL SCHEDULE
51	2EC HV16-V..HVAC:UPGR TRNDO/MISS PRO (2R8)	RAP-129-91-0035	U1		1 June 1991	21 October 1994	CONCEPTUAL SCHEDULE
52	2EC CH01-V..CHILLED WTR SYS UPGRADES (2R8)	RAP-129-91-0057	U1		19 January 1993	28 October 1994	CONCEPTUAL SCHEDULE
53	2EC PM01-V..REPL/UPGRD VARIOUS PMPs (2R8)	RAP-129-91-0083	U1		9 March 1992	28 October 1994	CONCEPTUAL SCHEDULE
54	2EC IC04-V..REPLCE ASCO SOLENOID VLV (2R8)	RAP-129-91-0093	U1		5 November 1991	28 October 1994	CONCEPTUAL SCHEDULE
55	2SC2292 CW02-I..WTRBX MANWAYS & TBESHT (2R8)	RAP-129-91-0018	U1		15 October 1992	17 February 1995	CONCEPTUAL SCHEDULE
56	2EC3201 CW02-I..REPLACE BEARING LUBE PPG (2R8)	RAP-129-91-0018	U1		1 September 1993	24 February 1995	CONCEPTUAL SCHEDULE
57	2EC IN01-V..UPGRD INSULATN - RCP&SG (2R8)	RAP-129-91-0070	U1		21 October 1991	3 May 1996	CONCEPTUAL SCHEDULE

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 (i.e. DCP - Part A closed out)  
 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

02/26/93

**PUBLIC SERVICE ELECTRIC & GAS  
E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 1 12TH REFUELING OUTAGE</u></b>				<b>(BREAKER OPEN 03/02/95 - BREAKER CLOSED 05/08/95)</b>			

**SALEM PROJECTS-N. LEECH**

1	1EC RMS FULL REPLACEMENT - PRELIM. (1R12)	RAP-148-90-0048	N2	NRC/OPEN/272-89-10F1	5 July 1994	8 May 1995	CONCEPTUAL SCHEDULE
2	1EC REPLACE ROOM COOLERS (1R12)	RAP-069-92-0449	U1		27 September 1993	28 April 1995	CONCEPTUAL SCHEDULE
3	1EC3238 UNIT 1 STEAM GENERATOR FEED PIPG (1R12)	RAP-144-91-0007	U1		18 February 1994	27 April 1995	CONCEPTUAL SCHEDULE
4	1EC3237 UNIT 1 ADDED TURBINE AUX COOLING (1R12)	RAP-144-91-0005	U1		18 February 1994	27 April 1995	CONCEPTUAL SCHEDULE
5	1EC3239 UNIT 1 STATION AIR COMPR PIPING (1R12)	RAP-144-91-0009	U1		18 February 1994	27 April 1995	CONCEPTUAL SCHEDULE
6	1EC CHARGING PUMPS - AUTO RECIRC VLVS(1R12)	RAP-069-91-0448	N2		28 August 1992	26 April 1995	CONCEPTUAL SCHEDULE
7	1EC CONTAINMENT LINER PLATE - PRELIM.(1R12)	RAP-125-91-1000	N2	NRC/OPEN/311-90-8121	1 October 1993	8 May 1995	CONCEPTUAL SCHEDULE
8	1SC HEBA/HEBA PROJECT (1R12)	RAP-128-90-0007	U1		10 June 1994	8 May 1995	CONCEPTUAL SCHEDULE
9	1EC UNIT #1 REG. GUIDE 1.97 (1R12)	RAP-126-91-0017	N2	NRC/VIOL/272/89-1304	14 October 1993	28 April 1995	CONCEPTUAL SCHEDULE
10	1EC ST901 VLV HIGH VIBRATN - PRELIM. (1R12)	RAP-069-91-0638	U1		1 October 1993	8 May 1995	CONCEPTUAL SCHEDULE
11	1EC CFCU MOTOR COOLERS-PRELIM. (1R12)	RAP-069-92-0450	U1		1 October 1993	22 November 1996	CONCEPTUAL SCHEDULE

**REVITALIZATION-M. METCALF**

12	1EC EL07-V..ELECT:IMPRV CMPNT MN (1R12)	RAP-129-91-0084	U1		22 September 1992	5 May 1995	CONCEPTUAL SCHEDULE
13	1EC EL09-V..RPL CO4 INST RLY AC/SWGR (1R12)	RAP-129-92-0096	U1		24 May 1993	5 May 1995	CONCEPTUAL SCHEDULE

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(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

**PUBLIC SERVICE ELECTRIC & GAS**  
**E&PB INTEGRATED SCHEDULE PROGRAM**  
**PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

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<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b>SALEM UNIT 1 12TH REFUELING OUTAGE</b>				<b>(BREAKER OPEN 03/02/95 - BREAKER CLOSED 05/08/95)</b>			
<b>REVITALIZATION-M. METCALF</b>							
14	1EC SG01-V..STM GEN FEEDPUMP CNTRLS (1R12)	RAP-129-91-0078	U1		2 February 1993	19 May 1995	CONCEPTUAL SCHEDULE
15	1EC HV06-V..HVAC:AUX BLDG REFURB (1R12)	RAP-129-91-0025	U1		1 May 1992	9 May 1995	CONCEPTUAL SCHEDULE
16	1EC IC05-V..UPGR VARIOUS INSTR&CNTRL (1R12)	RAP-129-91-0092	U1		23 September 1992	27 April 1995	CONCEPTUAL SCHEDULE
17	1EC CM04-V..REPLACE P-250 COMPTR SYS (1R12)	RAP-129-91-0072	U1		18 March 1992	9 June 1995	CONCEPTUAL SCHEDULE
18	1EC CM05-V..ROD POSTN IND UPG(MRPI) (1R12)	RAP-129-91-0054	U1		31 January 1994	19 May 1995	CONCEPTUAL SCHEDULE
19	1EC PG01-V..SECNDRY PPG/VLV REPLCMNT (1R12)	RAP-129-91-0069	U1		2 July 1992	12 May 1995	CONCEPTUAL SCHEDULE
20	1EC HV03-V..HVAC:SPAV REFURB (1R12)	RAP-129-91-0022	U1		16 March 1992	5 May 1995	CONCEPTUAL SCHEDULE
21	1EC MP02-V..ADD PLTFRM,GRDRL,MONORL (1R12)	RAP-129-91-0087	U1		7 August 1991	23 May 1995	CONCEPTUAL SCHEDULE
22	1EC PZ01-V..PRESRZR PPG&CBL RPLCMNT (1R12)	RAP-129-91-0065	U1		22 June 1992	19 May 1995	CONCEPTUAL SCHEDULE
23	1EC CM03-V..REPLACE DORTC COMPTR SYS (1R12)	RAP-129-91-0079	U1		23 April 1993	19 May 1995	CONCEPTUAL SCHEDULE
24	1EC SG02-V..STM GEN RELBLTY/MAINT (1R12)	RAP-129-91-0047	U1		2 October 1992	12 May 1995	CONCEPTUAL SCHEDULE
25	1EC II01-V..INCORE SYS MECH UPGRADES (1R12)	RAP-129-91-0049	U1		5 August 1991	5 May 1995	CONCEPTUAL SCHEDULE
26	1EC CP02-V..WTR SYS REFURBMNT/UPGRDS (1R12)	RAP-129-91-0020	U1		16 March 1992	5 May 1995	CONCEPTUAL SCHEDULE
27	1EC VL07-V..CP MAN & CNTRL VLV UPGRD (1R12)	RAP-129-91-0020	U1		16 March 1992	25 October 1996	CONCEPTUAL SCHEDULE
28	1EC TL01-V..TURB LUBE OIL UPGRADES (1R12)	RAP-129-91-0056	U1		23 November 1992	12 May 1995	CONCEPTUAL SCHEDULE
29	1EC FH01-V..FUEL HDLG/SPENT FUEL PL (1R12)	RAP-129-91-0076	U1		23 July 1992	19 May 1995	CONCEPTUAL SCHEDULE

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 (i.e. DCP - Part A closed out)  
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 \* report: ilrp2 \*

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E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>SALEM UNIT 1 12TH REFUELING OUTAGE</u></b> (BREAKER OPEN 03/02/95 - BREAKER CLOSED 05/08/95)							
<b><u>REVITALIZATION-M. METCALF</u></b>							
30	1EC MS01-V..REPLC L P MSR BUNDLS (1R12)	RAP-129-91-0051	U1		14 October 1991	19 May 1995	CONCEPTUAL SCHEDULE
31	1EC VL06-V..REPLC VC1-6 CONTMNT ISO (1R12)	RAP-129-91-0043	U1		1 October 1991	23 May 1995	CONCEPTUAL SCHEDULE
32	1EC FP02-V..FIRE DETECT SYS UPGRADE (1R12)	RAP- - -			4 May 1992	9 May 1995	CONCEPTUAL SCHEDULE
33	1EC HV21-V..EXPND CNTRL RM ENVELOP (1R12)	RAP- - -			24 February 1992	5 May 1995	CONCEPTUAL SCHEDULE
34	1EC NR02-V..NON-RAD LIQ WASTE UPGRD (1R12)	RAP-129-91-0050	U1		10 November 1992	25 October 1996	CONCEPTUAL SCHEDULE
35	1EC HV16- V..HVAC:UPGR TRNDO/MISS PRO (1R12)	RAP-129-91-0035	U1		1 June 1991	28 April 1995	CONCEPTUAL SCHEDULE
36	1EC CH01-V..CHILLED WTR SYS UPGRADES (1R12)	RAP-129-91-0057	U1		19 January 1993	5 May 1995	CONCEPTUAL SCHEDULE
37	1EC PM01- V..REPL/UPGRD VARIOUS PMPs (1R12)	RAP-129-91-0083	U1		9 March 1992	5 May 1995	CONCEPTUAL SCHEDULE
38	1EC IC04-V..REPLACE ASCO SOLNID VLVS (1R12)	RAP-129-91-0093	U1		5 November 1991	9 May 1995	CONCEPTUAL SCHEDULE
39	1EC IN01-V..UPGRD INSULATN ON RCP&SG (1R12)	RAP-129-91-0070	U1		21 October 1991	8 November 1996	CONCEPTUAL SCHEDULE

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(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

02/26/93

**PUBLIC SERVICE ELECTRIC & GAS**  
**E&PB INTEGRATED SCHEDULE PROGRAM**  
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<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b>HOPE CREEK 5TH REFUELING OUTAGE</b>				<b>(BREAKER OPEN 03/05/94 - BREAKER CLOSED 04/22/94)</b>			
<b>SALEM PROJECTS-N. LEECH</b>							
1	4EC3372 HOPE CREEK STATION BLACKOUT (4R5)	RAP-144-90-0039	N1	NRC/CODE/10CFR50.63	15 June 1992	6 May 1994	TARGET SCHEDULE
<b>HOPE CREEK PROJECTS-R. DIAZ</b>							
2	4EC3344 IRON RED/DRN/PPG/PNL (4R5)	RAP-131-90-0003	U1		21 December 1992	15 July 1994	CONCEPTUAL SCHEDULE
3	4HC0154 FEEDWATER CONTROL SYS (4R5)	RAP-102-90-0125	U1		25 January 1992	29 April 1994	CONCEPTUAL SCHEDULE
4	4EC3387 UPGRADE DRYWELL AREA LIGHTING (4R5)	RAP-102-90-0115	U1		17 December 1992	22 April 1994	CONCEPTUAL SCHEDULE
5	4EC1052 STEAM TUNNEL RM 1117 PAINTING	RAP-144-90-0038	U1				SCHEDULE TBD
6	4EC1021 SNUBBER REDUCTION (4R5)	RAP-106-90-0006	U1		8 September 1992	19 April 1994	TARGET SCHEDULE
7	4EC3008 GS VALVES (4R5)	RAP-106-90-0007	U1		4 January 1993	29 April 1994	TARGET SCHEDULE
8	4HC0242 HWC DATA COLLECTION (4R5)	RAP-102-90-0134	U1		9 March 1994	16 March 1994	CONCEPTUAL SCHEDULE
9	4EC3112 SW "B" LOOP SUPPLY & VLVS (4R5)	RAP-106-90-0001	U1		1 July 1992	15 April 1994	CONCEPTUAL SCHEDULE
10	4HC0220 SACS VALVES (4R5)	RAP-106-90-0013	U1		23 November 1992	1 April 1994	CONCEPTUAL SCHEDULE
11	4EC1041 MSIV POPPET CHANGE (4R5)	RAP-121-91-0002	U1		29 January 1993	14 March 1994	CONCEPTUAL SCHEDULE
12	4EC3316 SEPARATE RMS ALARMS (4R5)	RAP-101-90-0006	U1		11 January 1993	8 April 1994	CONCEPTUAL SCHEDULE
13	4EC3023 CONDENSATE TRANSFER WATER HAMMER (4R5)	RAP-102-90-0082	U1		29 January 1993	28 March 1994	CONCEPTUAL SCHEDULE

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 (i.e. DCP - Part A closed out)  
 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

02/26/93

**PUBLIC SERVICE ELECTRIC & GAS**  
**E&PB INTEGRATED SCHEDULE PROGRAM**  
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<b><u>HOPE CREEK 5TH REFUELING OUTAGE</u></b>					<b>(BREAKER OPEN 03/05/94 - BREAKER CLOSED 04/22/94)</b>		
<b><u>HOPE CREEK PROJECTS-R. DIAZ</u></b>							
14	4EC3343 NAMCO QUICK DISCONNECT (4R5)	RAP-107-91-0003	U1		7 March 1994	14 April 1994	TARGET SCHEDULE

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 \* report: ilrp2 \*

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<b><u>HOPE CREEK 6TH REFUELING OUTAGE</u></b>				<b>(BREAKER OPEN 09/09/95 - BREAKER CLOSED 10/23/95)</b>			
<b><u>HOPE CREEK PROJECTS-R. DIAZ</u></b>							
1	4EC _____ COOLING TWR FILL (4R6)	RAP-131-90-0001	U1				SCHEDULE TBD
2	4EC3192 NSSS COMPUTER (4R6)	RAP-122-90-0003	U1		29 January 1993	26 May 1995	CONCEPTUAL SCHEDULE
3	4EC _____ SW PUMPS/STRAINERS (4R6)	RAP-102-90-0151	U1				SCHEDULE TBD
4	4EC _____ CORE STABILITY HARDWARE (4R6)	RAP-102-90-0006	U1		29 January 1993	20 December 1995	CONCEPTUAL SCHEDULE
5	4EC3142 VESSEL FATIGUE MNTR (4R6)	RAP-102-90-0042	U1				SCHEDULE TBD
6	4EC3001 RMS COMPUTER ALARM UPGRADE (4R6)	RAP-101-90-0006	U1		29 January 1993	17 November 1993	CONCEPTUAL SCHEDULE
7	4EC _____ RECIRC PUMP SHAFTS (4R6)	RAP-102-92-0230	U1				SCHEDULE TBD
8	4EC3344 IRON REDUCTION - LONG TERM OPTION (4R6)	RAP-131-90-0003	U1		29 January 1993	12 May 1994	CONCEPTUAL SCHEDULE

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 (i.e. DCP - Part A closed out)  
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 \* report: ilrp2 \*



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E&PB INTEGRATED SCHEDULE PROGRAM  
PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>HOPE CREEK NON-OUTAGE WORK</u></b>							
<b><u>SALEM PROJECTS-N. LEECH</u></b>							
1	4EC3301 ERDS NRC LINK (HOPE CREEK) (NO)	RAP-126-91-0006	N1	NRC/CODE/10CFR50APPE	7 December 1992	12 February 1993	TARGET SCHEDULE
2	4EC3124 COOLING TOWER SUMP PUMPS (NO)	RAP-102-90-0008	U1		25 January 1993	2 April 1993	CONCEPTUAL SCHEDULE
<b><u>HOPE CREEK PROJECTS-R. DIAZ</u></b>							
3	4EC3206 REMOVE IRON REDUCTION TEST SKID (1994)	RAP-131-90-0003	U1		29 January 1993	26 November 1993	TARGET SCHEDULE
4	4EC3296 FIRE PROT COMPUTER (1994)	RAP-115-90-0003	N2		2 November 1992	26 September 1994	TARGET SCHEDULE
5	4EC _____ SPRAY WASH BSTR PUMPS (4NO)	RAP-102-92-0226	U1				SCHEDULE TBD
6	4EC _____ SWIS HVAC UPGD (4NO)	RAP-102-92-0232	U1				SCHEDULE TBD
7	4EC3348 RW RESTART PROJECT (1993)	RAP-102-90-0002	U1		10 August 1992	1 April 1994	TARGET SCHEDULE
8	4HC0242 PERMANENT H2/O2 STORAGE FACILITY (1995)	RAP-102-90-0134	U1		22 June 1992	13 November 1995	CONCEPTUAL SCHEDULE
9	4EC _____ SPARE GSU XFMR (4NO)	RAP-102-90-0150	U1				SCHEDULE TBD
10	4EC _____ DIESEL BACKED 120VAC/1BC201 (1993)	RAP-126-91-0021	U1		12 January 1993		SCHEDULE TBD
11	4EC3344 IRON RED/DRN/PPG/PNL (1993)	RAP-131-90-0003	U1		29 January 1993	20 July 1993	TARGET SCHEDULE
12	4EC3385 UPGRADE 13KV POWER LOOP	RAP-102-92-0241	U1				SCHEDULE TBD
13	4EC3020 REPLACE CEILING-RADWASTE BLDG (1993)	RAP-102-90-0080	U1		29 January 1993	18 February 1993	TARGET SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
Installation finish occurs when installation is approved for service.  
(i.e. DCP - Part A closed out)  
TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
\* report: ilrp2 \*

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2A

02/26/93

**PUBLIC SERVICE ELECTRIC & GAS**  
**E&PB INTEGRATED SCHEDULE PROGRAM**  
**PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>HOPE CREEK NON-OUTAGE WORK</u></b>							
<b><u>HOPE CREEK PROJECTS-R. DIAZ</u></b>							
14	4EC3182 TRANSMITTER POWER LEADS (1992)	RAP- - -			29 January 1993	17 June 1993	TARGET SCHEDULE
15	4EC3182 TRANSMITTER POWER LEADS (1993)	RAP- - -			22 January 1993	10 September 1993	TARGET SCHEDULE
16	4EC3059 HILLER VALVE STEMS (1994)	RAP-102-90-1249			29 January 1993	8 February 1993	TARGET SCHEDULE
17	4EC3001 RMS COMPUTER ALARM UPGRADE (1994)	RAP-101-90-0006	U1		6 July 1992	6 October 1994	CONCEPTUAL SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
 Installation finish occurs when installation is approved for service.  
 (i.e. DCP - Part A closed out)  
 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

02/26/93

**PUBLIC SERVICE ELECTRIC & GAS**  
**E&PB INTEGRATED SCHEDULE PROGRAM**  
**PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>ARTIFICIAL ISLAND PROJECTS</u></b>							
<b><u>ISLAND SUPPORT-R. BRAVO</u></b>							
1	INTERIM LOW LEVEL RADWASTE STORAGE (NO)	RAP-117-90-0004	E2		1 November 1991	2 February 1994	CONCEPTUAL SCHEDULE
2	POTABLE WATER SYSTEM UPGRADE	RAP-121-90-0016	E2				SCHEDULE TBD
3	SEWAGE TREATMENT PLANT UPGRADE	RAP-117-90-0003	E2				SCHEDULE TBD
4	4EC3222 AI GAS STATION	RAP-144-90-0026	E1		1 September 1992	7 January 1993	TARGET SCHEDULE
5	NUCLEAR SERVICES FACILITY (NO)	RAP-144-90-0027	U1				SCHEDULE TBD
<b><u>HOPE CREEK PROJECTS-R. DIAZ</u></b>							
6	5EC3029 AUTO ACCOUNTABILITY SYS-ARTIF ISL	RAP-133-90-0004	N2	NRC/OPEN/354/89-14F3	27 May 1992	27 July 1993	TARGET SCHEDULE
7	5EC _____ DPCC	RAP-121-91-0006	E1		8 November 1991	5 July 1996	CONCEPTUAL SCHEDULE
8	5EC _____ A92007 MODS TO SEWAGE LIFT STATIONS	RAP-102-92-0229	E2		5 November 1992	3 September 1993	TARGET SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
 Installation finish occurs when installation is approved for service.  
 (i.e. DCP - Part A closed out)  
 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

**PUBLIC SERVICE ELECTRIC & GAS**  
**E&PB INTEGRATED SCHEDULE PROGRAM**  
**PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

02/26/93

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>FUNCTIONAL PROJECT WORK</u></b>							
<b><u>HOPE CREEK PROJECTS-R. DIAZ</u></b>							
1	1EC SALEM U#1&#2 DISCREP MANAGEMENT PROJ	RAP-144-90-0001	U1		4 January 1993	29 December 1997	TARGET SCHEDULE
2	1EC SALEM U#1&#2 ENG RECOVERY PROJECT	RAP-144-90-0001	U1		28 February 1989	19 July 1996	TARGET SCHEDULE
3	HOPE CREEK DISCREPANCY MANAGEMENT PROJECT	RAP-144-90-0002	U1		29 January 1993	24 January 1997	TARGET SCHEDULE
4	1EC SALEM U#1&#2 DATA INFORM MGMT PROJ	RAP-124-90-0003	U1		2 January 1993	16 December 1997	TARGET SCHEDULE
5	HOPE CREEK DATA INFORMATION MANAGEMENT SYSTEM	RAP-124-90-0003	U1		2 January 1993	29 December 1997	TARGET SCHEDULE
6	1EC SALEM U#1&#2 SAFETY SYS FUNCT ANALY	RAP-143-91-0002	U1		29 January 1993	30 June 1997	TARGET SCHEDULE
7	HOPE CREEK SAFETY SYSTEM FUNCTION ANALYSIS	RAP-143-91-0003	U1		29 January 1993	30 June 1997	TARGET SCHEDULE
8	4EC HC GENERIC LETTER #89-10 #A-4084.0	RAP-125-90-0017	N2	NRC/INSP/354/91-8001	4 January 1993	24 June 1994	TARGET SCHEDULE
9	1EC SALEM UTS #1 & #2 G.L.O#89-10 PROJ	RAP-125-90-0017	N2	NRC/GL/89-10	4 January 1993	24 June 1994	TARGET SCHEDULE
10	4EC HC CONFIGURATION BASELINE DOC.	RAP-144-90-0002	U1		17 July 1989	17 December 1997	TARGET SCHEDULE
11	1EC SALEM U#1&#2 CONFIG BASELINE DOCUMTN	RAP-144-90-0001	U1		1 April 1988	16 December 1996	TARGET SCHEDULE
<b><u>FUNCTIONAL MGRS</u></b>							
12	MMIS DATA ACQUISITION PROJECT (MDAP)	RAP-124-90-0002	U1		1 January 1990	31 August 1994	TARGET SCHEDULE
13	UHS MAX TEMP EVALUATION	RAP-102-90-0152	N2	PSEG/PSLT/92-08-0401	30 September 1992	8 October 1993	CONCEPTUAL SCHEDULE
14	PRESSURIZER SURGE LINE THERMAL STRATIFICATION	RAP-125-90-0013	N2	NRC/BULL/88-11	30 September 1992	8 October 1993	TARGET SCHEDULE
15	RESOLUTION OF SEISMIC ISSUES SALEM 1&2	RAP-128-90-0004	N2	NRC/GL/87-02	4 January 1993	22 November 1995	TARGET SCHEDULE
16	SALEM 1&2 CABLE SEPARATION	RAP-126-91-0016	N2	NRC/OPEN/272/90-8113	4 January 1993	12 January 1994	CONCEPTUAL SCHEDULE
17	IMS INTEGRATED MANAGEMENT SYSTEM PROJECT	RAP-145-90-0002	U1		16 July 1991	30 August 1994	TARGET SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
 Installation finish occurs when installation is approved for service.  
 (i.e. DCP - Part A closed out)  
 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

02/26/93

**PUBLIC SERVICE ELECTRIC & GAS**  
**E&PB INTEGRATED SCHEDULE PROGRAM**  
**PROJECT STATUS REPORT - PERIOD ENDING -01/29/93**

<u>ITEM NO</u>	<u>PROJECT</u>	<u>NDRAP #</u>	<u>ISP CAT</u>	<u>REGULATORY ITEM</u>	<u>INITIATION START</u>	<u>INSTALLATION FINISH</u>	<u>COMMENTS</u>
<b><u>FUNCTIONAL PROJECT WORK</u></b>							
<b><u>FUNCTIONAL MGRS</u></b>							
18	PMPIP PROJECT MGMT PROCESS IMPROVEMENT PLAN	RAP-127-92-0003	U1		16 July 1991	30 December 1994	TARGET SCHEDULE
19	SALEM LRW CODE RECLASSIFICATION	RAP-128-92-0001	U1		4 January 1993	15 December 1995	CONCEPTUAL SCHEDULE
20	DCP CLOSURE - BACKLOG REDUCTION PROJECT	RAP-124-91-0003	U1		4 January 1993	30 December 1993	CONCEPTUAL SCHEDULE
21	IPEEE PROJECT - HOPE CREEK	RAP-128-90-0010	N2	NRC/GL/88-20/SUP4	1 June 1992	30 May 1995	TARGET SCHEDULE
22	IPE PRA PROJECT - HOPE CREEK	RAP-128-90-0010	N2	NRC/GL/88-20	1 January 1990	30 July 1993	TARGET SCHEDULE
23	IPEEE PROJECT - SALEM	RAP-128-90-0009	N2	NRC/GL/88-20/SUP4	1 June 1992	30 May 1995	TARGET SCHEDULE
24	IPE PRA PROJECT - SALEM	RAP-128-90-0009	N2	NRC/GL/88-20	1 January 1990	30 July 1993	TARGET SCHEDULE

NOTES: Initiation start occurs when NDRAP request is issued.  
 Installation finish occurs when installation is approved for service.  
 (i.e. DCP - Part A closed out)  
 TARGET SCHEDULE is declared after approval of PROJECT SCOPE PROPOSAL and necessary funding.  
 \* report: ilrp2 \*

**ATTACHMENT E**

**INTEGRATED  
SCHEDULING  
PROGRAM**

**INTEGRATED MASTER  
SCHEDULE**

# **E&PB**

## **INTEGRATED MASTER SCHEDULE**

- \* Salem Projects**
- \* Hope Creek Projects**
- \* Island Support**
- \* Functional Projects**

**E&PB**

**INTEGRATED MASTER SCHEDULE**

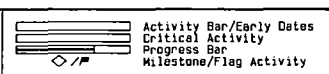
**SALEM PROJECTS**

Issue Date: February 12, 1993



RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
SALEM PROJECTS - UNIT 2 - 7TH REFUELING OUTAGE																																																																	
148900049	NRC/NREG/0737-II.D.1	N2	R	12JUL90A	3JUN93	2EC3190 PORV MODS (2R7)																																																											
125900002	NRC/INFO/90-17	N2	R	1MAR92A	4JUN93	2EC3144 COPEL VULCAN VLV PPG HGR MODS (2R7)																																																											
144910012		U1	R	29JUN92A	29APR93	2EC3127 DIESEL GENERATOR PIPE-UNIT 2 (2R7)																																																											
069900295	NRC/DKLT/88-11-17	N2	RS1	1JUL92A	3JUN93	2EC3180 CROM CLAMPS REPLACEMENT (2R7)																																																											
069900331		U1	R	6AUG92A	3JUN93	2EC3175 MSR TUBE BUNDLES - 22W & 23E (2R7)																																																											
122910001	NSO/LEA/272/91-03600	N2	C	30SEP92A	20MAY93	2EC3181 AUX FEED FLOW MODS (2R7)																																																											
069900400		U1	RS1	5OCT92A	12APR93	2EC3177 RVLIS MODIFICATIONS (2R7)																																																											
144920004		U1	R	6OCT92A	29APR93	2EC3083 UN 2 CHILL CONDENSER PIPG PHSE 2 (2R7)																																																											
148900010		U1	R	30NOV92A	20MAY93	2SC2163 SYNCHRO RELAYS FOR MAIN GENERATOR (2R7)																																																											
148900010		U1	R	30NOV92A	20MAY93	2SC2164 SYNCHRO RELAYS FOR EMERGENCY GEN. (2R7)																																																											
125910003		U1	R	1DEC92A	21MAY93	2EC SGF PIPE (EROSN/CORRSN) (2R7)																																																											
069900435	NRC/BULL/90-01	N2	C	7DEC92A	6MAY93	2EC3098 REPLACE ROSEMOUNT TRANSMITTERS (2R7)																																																											
126910017		N2	R	14DEC92A	20MAY93	2EC3196 REG GUIDE 1.97 (2R7)																																																											
069900236		N2	R	31DEC92A	1JUN93	2EC3198 CONTROL ROOM ANNUNCIATOR MODS (2R7)																																																											

Plot Date 26FEB93  
 Data Date 29JAN93  
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Sheet 1 of 24  
 PSE&G-ENGINEERING & PLANT BETTERMENT  
 INTEGRATED MASTER SCHEDULE  
 PRELIMINARY SALEM PROJECTS

E&PB SCHEDULING - PAUL DUKE X-1777			
Date	Revision	Checked	Approved

RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
SALEM PROJECTS - UNIT 2 - 7TH REFUELING OUTAGE																																																																	
				18JAN93A	3JUN93													2EC3209 TURBINE SUPERVISORY (2R7)																																															
125922001		N2	R	25JAN93A	20MAY93													2EC												STEAM GENERATOR INSPECTION (2R7)																																			
				29JAN93	3JUN93													2EC3211												SGF PRESSURE REDUCTION - PRELIM. (2R7)																																			
125922001		N2	R	1MAR93	28APR93													2EC												STEAM GENERATOR NOZZLE INSPECTION (2R7)																																			
069900243		U1	R	29MAR93	20MAY93													2SC2267												SEC ATI RESTORATION (OUTAGE) (2R7)																																			
144910014		U1	R	29MAR93	7MAY93													2EC3128												NUCLEAR HEADER CROSSOVER-UNIT 2 (2R7)																																			
144910004		U1	R	29MAR93	29APR93													2EC3129												UNIT 2 TURBINE LUBE OIL PIPING (2R7)																																			
144920003		U1	R	29MAR93	29APR93													2EC3130												INTAKE BAY NUMBER 4 (2R7)																																			
144910015		U1	R	29MAR93	7MAY93													2EC3131												22CCHX UPSTREAM PIPING (2R7)																																			
SALEM REVITALIZATION - UNIT 2 - 7TH RFO																																																																	
129910008		U1	C	20JUL92A	28JUL93													2EC3170												BF01-I SGFD PMP CNTRL OIL SYS (2R7)																																			
129910091		U1	C	27OCT92A	29JUL93													2EC												IC06-V MISC I&C UPGRADES (2R7)																																			
129910039		U1	R	2NOV92A	30JUL93													2EC3189												EL01-I INSTLN OF PERM BACKUP PWR (2R7)																																			
129910024		U1	R	6NOV92A	19JUL93													2EC3172												HV05-V HVAC MODS TO D/G BAYS (2R7)																																			

Plot Date 26FEB93  
 Data Date 29JAN93

(c) Primavera Systems, Inc.

Activity Bar/Early Dates  
 Critical Activity  
 Progress Bar  
 Milestone/Flag Activity

Sheet 2 of 24

PSE&G-ENGINEERING & PLANT BETTERMENT  
 INTEGRATED MASTER SCHEDULE  
 PRELIMINARY SALEM PROJECTS

E&PB SCHEDULING - PAUL DUKE X-1777

Date	Revision	Checked	Approved

RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
						SALEM REVITALIZATION - UNIT 2 - 7TH RFO																																																											
129910032		U1	R	8DEC92A	14MAY93	2EC HV13-V..HVAC: UPGRADE FLTR UNITS (2R7)																																																											
129910018		U1	C	29DEC92A	6JUL93	2CH002H CW02-I..WTRBX STIFFNRS & LADDERS (2R7)																																																											
129910063		U1	C	18JAN93A	27MAY93	2EC3204 EH01-V..TURB EHC SKID UPGRDS (2R7)																																																											
129910063		U1	C	18JAN93A	2AUG93	2EC EH01-V..UPGRADE TURB EHC SYS (2R7)																																																											
129910016		U1	ES2	25JAN93A	25JUN93	2EC3210 MP01..#23UAUXEFD PMPDRIGGING PTS. (2R7)																																																											
129910032		U1	R	25FEB93	25FEB93	2EC HV13-V..ROLL FILTERS CNTL RM/SWGR (2R7)																																																											
129910044		U1	R	15MAR93	6JUL93	2EC3109 AF01-I..AUX/FEED TACH & T/C INST (2R7)																																																											
129910044		U1	R	15MAR93	11MAY93	2EC ELX2-V..4KV SWTCHGR MAINTENANCE (2R7)																																																											
129910015		U1	C	19MAR93	29JUL93	2EC3139 CP01-I..COND/PLSHNG STRUCT STL (2R7)																																																											
129910005		U1	R	24MAR93	18JUN93	2EC3101 GN01-I..HYDRO GAS DRYR INST MODS (2R7)																																																											
129920098		U1	R	25MAR93	18JUN93	2EC3136 EL11-V..ROD CNTRL SYS PWR SPLY (2R7)																																																											
129910018		U1	C	26MAR93	8JUL93	2E02280 CW07-V..CIRC/WTR BEARNG LUBE VLV (2R7)																																																											
129910040		U1	R	29MAR93	9APR93	2EC3097 DG01-I..DSEL GEN RELIABILITY MOD (2R7)																																																											
129910055		U1	E	5MAY93	18MAY93	1EC3209 EL02-I..ELE: PAGE SYS-5 CHNNL (2R7)																																																											

Plot Date 26FEB93  
 Data Date 29JAN93  
 (c) Primavera Systems, Inc.

Activity Bar/Early Dates  
 Critical Activity  
 Progress Bar  
 Milestone/Flag Activity

Sheet 3 of 24  
 PSE&G-ENGINEERING & PLANT BETTERMENT  
 INTEGRATED MASTER SCHEDULE  
 PRELIMINARY SALEM PROJECTS

E&PB SCHEDULING - PAUL DUKE X-1777			
Date	Revision	Checked	Approved

RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
						SALEM PROJECTS - UNIT 1 - 11TH REFUELING OUTAGE																																																											
148900049	NRC/NREG/0737-II.D.1	N2	R	12JUL90A	30NOV93	1EC3219 PORV MODS (1R11)																																																											
069900525	NRC/BULL/88-04	N2	R	1JAN91A	3DEC93	1EC3128 RHR PUMP DEADHEAD (1R11)																																																											
125900002	NRC/INFO/90-17	N2	R	1MAR92A	13DEC93	1EC3167 COPES VULCAN VLV PPG HGR MODS (1R11)																																																											
069900202		U1	C	1APR92A	7DEC93	1SC2269 500-13.8KV SWITCHYARD UPGRADE (1R11)																																																											
122910001	NSO/LEA/272/91-03600	N2	C	1MAY92A	26NOV93	1EC3220 AUX FEED FLOW MODS (1R11)																																																											
148900028		U1	C	10AUG92A	10DEC93	1EC MAIN STEAM FLOW MEASURE (1R11)																																																											
		N2	R	11SEP92A	10DEC93	1EC STEAM GENERATOR THERMAL SLEEVE (1R11)																																																											
144910001	NRC/DKLT/89-07-20-01	N2	R	21SEP92A	3DEC93	1EC3208 SALEM UNIT 1 FIRE DAMPERS (1R11)																																																											
069900240		U1	RS1	5OCT92A	15NOV93	1EC3205 RVLIS MODIFICATIONS (1R11)																																																											
069900295	NRC/DKLT/88-11-17	N2	RS1	4NOV92A	15APR93	1EC CRDM CLAMPS/OVERLAY FIXES (1R11)																																																											
144910011		U1	R	17NOV92A	4NOV93	1EC3149 DIESEL GENERATOR PIPE-UNIT 1 (1R11)																																																											
144910003		U1	R	17NOV92A	4NOV93	1EC3151 UNIT 1 TURBINE LUBE OIL PIPING (1R11)																																																											
144910013		U1	R	25NOV92A	4NOV93	1EC3150 NUCLEAR HEADER CROSSOVER-UNIT 1 (1R11)																																																											
069900243		U1	R	30NOV92A	10DEC93	1SC2267 SEC ATTI RESTORATION (OUTAGE) (1R11)																																																											

Plot Date 26FEB93  
Data Date 29JAN93

Activity Bar/Early Dates  
Critical Activity  
Progress Bar  
Milestone/Flag Activity

PSE&G-ENGINEERING & PLANT BETTERMENT  
INTEGRATED MASTER SCHEDULE  
PRELIMINARY SALEM PROJECTS

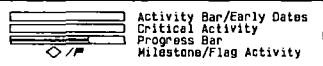
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ESP&B SCHEDULING - PAUL DUKE X-1777

Date	Revision	Checked	Approved

RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
SALEM PROJECTS - UNIT 1 - 11TH REFUELING OUTAGE																																																																	
148900010		U1	R	16DEC92A	10DEC93	1SC2163 SYNCHRO RELAYS FOR MAIN DG (1R11)																																																											
148900010		U1	R	16DEC92A	10DEC93	1SC2164 SYNCHRO RELAYS FOR EDG (1R11)																																																											
069900236		N2	R	31DEC92A	10DEC93	1EC3227 CONTROL ROOM ANNUNCIATOR MODS (1R11)																																																											
				18JAN93A	10DEC93	1EC3240 TURBINE SUPERVISORY (1R11)																																																											
				29JAN93	10DEC93	1EC3243 SGF PRESSURE REDUCTION - PRELIM. (1R11)																																																											
125914001	WEST/SALE/PSE-90-743	N2	R	29JAN93	29NOV93	1EC REACTOR HEAD VENT - PRELIM. (1R11)																																																											
		N2	R	4FEB93	10DEC93	1EC3225 REG GUIDE 1.97 (1R11)																																																											
128900007		U1	R	14APR93	10DEC93	1SC HEBA MEBA PROJECT (1R11)																																																											
125922001	NSO/LER/272/92-014	N2	R	27APR93	18NOV93	1EC STM GENERATOR NOZZLE REPLACEMENT (1R11)																																																											
125910003		U1	R	6JUL93	30NOV93	1EC SGF PIPE (EROSN/CORRSN) - PRELIM. (1R11)																																																											
144910016		U1	R	4OCT93	4NOV93	1EC3054 CFCU 11-15 CONTAIN PIPE BEL 102' (1R11)																																																											
SALEM REVITALIZATION - UNIT 1 - 11TH RFO																																																																	
129910029		U1	R	2JAN92A	30NOV93	1EC HV10-V. HVAC: INBRD/OUTBRD PENTRN (1R11)																																																											
129910069		U1	R	2JUL92A	10DEC93	1EC PG01-V. SECONDRY PPG/VLV REPLCMNT (1R11)																																																											

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Date	Revision	Checked	Approved

RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
SALEM REVITALIZATION - UNIT 1 - 11TH RFO						1EC CA02-V. UPGRD STN & CTRL AIR (1R11)																																																											
129910064		U1	C	17JUL92A	26OCT93	1EC3197 BF01-I. SGFD PMP CNTRL OIL SYS (1R11)																																																											
129910008		U1	C	20JUL92A	19JAN94	1EC3206 CM02-V. DIGITIZE FDWTR CTRL SYS (1R11)																																																											
129910053		U1	R	22SEP92A	4FEB94	1EC BA01-V. BORIC ACID CONCTR REDCTN (1R11)																																																											
129910081		U1	R	23SEP92A	9DEC93	1SC2297 CW0B-V. CONTROL HSE; XGR TIE IN (1R11)																																																											
129910085		U1	C	13OCT92A	15FEB94	1SC2299 CW02-I. MANWAYS & WTRBOX COATING (1R11)																																																											
129910018		U1	C	15OCT92A	22MAR94	1SC2300 CW02-I. LOOP SEALS, VAC PUMP (1R11)																																																											
129910018		U1	C	15OCT92A	11FEB94	1EC IC06-V. MISC ISC UPGRADES (1R11)																																																											
129910091		U1	R	27OCT92A	23DEC93	1EC3170 VL01-I. CA & NT VLV REPLACEMENT (1R11)																																																											
129910014		U1	R	2NOV92A	19JAN94	1EC3218 EL01-I. INSTLN OF PERM BACKUP PWR (1R11)																																																											
129910039		U1	R	2NOV92A	18JAN94	1EC3226 VL02-I. GB4 & AF23 VLV MODIFCTNS (1R11)																																																											
129910002		U1	R	3NOV92A	19NOV93	1EC HV13-V. HVAC UPGRD FLTR UNITS (1N0/1R11)																																																											
129910032		U1	R	8DEC92A	30NOV93	1EC3202 HV05-V. HVAC MODS TO D/G BAYS (1R11)																																																											
129910024		U1	R	21DEC92A	19NOV93	1EC3232 EH01-V. TURB EHC SKID UPGRDS (1R11)																																																											
129910063		U1	C	18JAN93A	19NOV93																																																												

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Activity Bar/Early Dates  
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ES&P SCHEDULING - PAUL DUKE X-1777			
Date	Revision	Checked	Approved

RAP	ATS	ISP	KSF	START	FINISH	1992				1993				1994				1995				1996							
						J	F	M	A	M	J	J	A	M	J	J	A	M	J	J	A	M	J	J	A	M	J	J	A
SALEM REVITALIZATION - UNIT 1 - 11TH RFO																													
129910063		U1	C	18JAN93A	25JAN94	1EC EH01-V..UPGRADE TURBINE EHC SYS (1R11)																							
129910085		U1	C	2FEB93	16FEB93	1SC2297 CW08-V..CONTROL HSE; XGR TIE IN (1R11)																							
129910074		U1	R	24FEB93	29OCT93	1EC EL08-V..ELECT:EMER LGHT INVER (1R11)																							
129910016		U1	ES2	22MAR93	4FEB94	1EC3223 MP01-I..PLATFRMS, LADDRS & FENCES (1R11)																							
129910048		U1	C	24MAY93	18NDV93	1EC WG01-V..WASTE GAS.SYS UPGRADES (1R11)																							
129910044		U1	R	20SEP93	15NOV93	1EC ELX -V..4KV SWHGEAR MAINTENANCE (1R11)																							
129910015		U1	C	27SEP93	11FEB94	1EC3156 CP01-I..COND/PLSHNG STRUCTAL STL (1R11)																							
129910018		U1	C	30SEP93	13JAN94	1E02285 CW07-V..CIRC/WTR BRNG LUBE VLVS (1R11)																							
129910055		U1	E	4OCT93	4OCT93	1EC3209 EL02-I..ELE:PAGE SYS-5 CHNNL (1R11)																							
SALEM PROJECTS - UNIT 1 - NON OUTAGE																													
069900202		U1	C	20DEC91A	7DEC93	1SC2269 500-13.8KV SWITCHYARD UPGRADE (1N0)																							
148900048	NRC/OPEN/272-B9-10F1	N2	R	22MAY92A	5NOV93	1EC RMS-R41'S (PILOT)-PRELIM. (1N0)																							
144900040	NRC/CODE/10CFR50.63	N1	RS1	15JUN92A	3DEC93	1EC3184 SALEM BLACKOUT PROJ-COMPR AIR SYS(1N/0)																							
144900040	NRC/CODE/10CFR50.63	N1	RS1	15JUN92A	29DEC93	1EC3189 SALEM BLACKOUT-"C" BATT RM HTRS (1N/0)																							

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RAP	ATS	ISP	KSF	START	FINISH	1992				1993				1994				1995				1996													
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
SALEM PROJECTS - UNIT 1 - NON OUTAGE																																			
121900004		E2	R	15JUL92A	26NOV93	1EC3193 SALEM OIL WATER SEPARATOR PROJECT (1N/D)																													
125913003		U1	R	7AUG92A	29MAR93	1EC MSIV ISSUES (1NO)																													
128900007		U1	R	21AUG92A	15FEB95	1SC HEBA MEBA PROJECT (1NO)																													
128900004	NRC/GL/B7-02	N2	R	10SEP92A	24MAY95	1EC NRC 87-02 A-46 SQUG - PRELIM. (1&2NO)																													
144910001	NRC/DKLT/B9-07-20-01	N2	R	21SEP92A	20SEP94	1EC3208 SALEM UNIT 1 FIRE DAMPERS (1NO)																													
069900420		E2	R	30SEP92A	7SEP93	1EC3204 HEATING BOILER DRAINAGE (1NO)																													
121900014		E2	R	12OCT92A	15MAR94	1EC NRW AMMONIA HYDRAZINE (1NO)																													
069920452		U1	R	16NOV92A	26NOV93	1EC3217 FIRE PUMP DIESEL (NO)																													
126910006	NRC/CODE/10CFR50APPE	N1	R	28DEC92A	12FEB93	1EC3135 ERDS-SALEM NRC LINK (NO)																													
069900375		E2	R	1JAN93A	16SEP93	1EC UNIT 3 SPILL CONTAINMENT (NO)																													
121900022		E2	R	29JAN93	8FEB94	1EC MAIN FUEL OIL STORAGE TANK (1NO)																													
148900048		N2	R	29JAN93	8FEB93	2S000231 VICTOREEN DOOR REPLACEMENT (1NO)																													
121900007		E2	R	4FEB93	4NOV94	1EC GROUND WATER DIVERSION (1NO)																													
069900300	NSQ/INCI/B9-792	U1	C	22FEB93	4MAR93	1EC3046 REPLACE BORIC ACID TRANSFER PUMPS (1NO)																													

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RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
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						SALEM PROJECTS - UNIT 1 - NON OUTAGE																																																											
069900225		U1	R	10CT93	8MAY95																									1EC DEMIN WTR STORAGE TANK - PRELIM. (1NO)																																			
148900048	NRC/OPEN/272-89-10F1	N2	R	1JUN94	6NOV95																									1EC RMS FULL REPLACEMENT - PRELIM. (162NO)																																			
128900007		U1	R	1AUG95	24OCT95																									1EZ HEBA/HEBA PROJECT																								(1NO)											
						SALEM REVITALIZATION - UNIT 1 - NON OUTAGE																																																											
129910023		U1	R	17JUN91A	3JAN94	1EC HV04-V..HVAC TURB-GEN AREA UPGRD (1NO)																																																											
129910086		U1	R	13AUG91A	4JAN95	1EC PL01-V..VARIOUS PWRSLGHTG IMPRVM (1NO)																																																											
129910071		U1	R	24OCT91A	2MAY94	1EC CV01-V..CVL:FIX/SEAL AUX BLD LKG (1NO)																																																											
129910102		U1	C	4NOV91A	18FEB94	1EC II02-V..INCORE SYS ELEC UPGRADES (1NO)																																																											
069900257		U1	C	13JAN92A	15FEB93	1EC3123 AF02-V..AUX FD/WTR HYDRAZINE MOD (1NO)																																																											
129910020		U1	R	16MAR92A	11APR94	1EC DW01-V..DEMIN WTR MAKE-UP UPGRD (1NO)																																																											
129910020		U1	R	16MAR92A	4APR94	1EC DW02-V..DM PLNT CNTRL & CP UPGRD (1NO)																																																											
129910018		U1	C	27MAR92A	27JUL94	1EC CW06-V..CIRC WTR STRUCTURE UPGRD (1NO)																																																											
129910050		U1	C	13APR92A	28JUL94	1EC WL04-V..WASTE LIQUID SYS UPGRADE (1NO)																																																											
129910015		U1	C	29JUN92A	13APR93	1EC3157 CP01-I..DEMIN/WTR MOD (88-EL TGA) (1NO)																																																											

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Date	Revision	Checked	Approved

RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
SALEM REVITALIZATION - UNIT 1 - NON OUTAGE																																																																	
129910059		U1	R	30JUN92A	2FEB93	1EC3136 IC01-I..UPGRD RDWSTE 104 CNTL PL (1NO)																																																											
129910069		U1	R	2JUL92A	15NOV96	1EC PG01-V..SECNDRY PPG/VLV REPLCMNT (1NO)																																																											
129910010		U1	R	29SEP92A	5MAR93	1EC3176 CA01-I..CNTRL AIR/DRYER RPLCMNT (1NO)																																																											
12991001B		U1	C	30SEP92A	4MAR93	1EC3198 CW07-V..CIRC/WTR CATHODIC PRCTN (1NO)																																																											
129910055		U1	E	5OCT92A	14DEC93	1EC3209 EL02-I..ELE: PAGE SYS-5 CHNNL (1NO)																																																											
129910003		U1	R	6OCT92A	28FEB94	1EC3213 SA01-I..UPGRD STN AIR COMP COOLER (1NO)																																																											
129910018		U1	C	8OCT92A	4JAN94	1SC2295 CW08-V..SCREEN WASH PUMPS (1NO)																																																											
129910018		U1	C	12OCT92A	5APR93	1EC3199 CW07-V..CIRC/WTR DIVDG WALL/VENT (1NO)																																																											
12991001B		U1	C	12OCT92A	30MAR93	1EE0006 CW07-V..CW PMP STUFNG BOX/ DRNS (1NO)																																																											
129910018		U1	C	12OCT92A	4MAR93	1EE0007 CW08-V..LGHTNG BEHIND TRV/SCRNS (1NO)																																																											
129910026		U1	R	13OCT92A	21SEP93	2EC HV07-V..HVAC: FUEL HDLG BLD UPGRD (1NO)																																																											
129910085		U1	C	13OCT92A	24NOV93	1SC2298 CW08-V..SWXGR HSE & TRENCH (1NO)																																																											
129910018		U1	C	15OCT92A	7APR93	CW07-I..STRUCTURAL STEEL REPAIRS (1NO)																																																											
129910011		U1	C	22OCT92A	15MAR93	1EC3195 FC01-I..LUBE OIL STORGE FACILITY (1NO)																																																											

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Activity Bar/Early Dates  
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Date	Revision	Checked	Approved

RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
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SALEM REVITALIZATION - UNIT 1 - NON OUTAGE																																																																	
129910058		U1	C	26OCT92A	8NOV93	1EC3216 IC03-I..BORC ACID EVPR.I&C UPGRD (1N0)																																																											
129910058		U1	C	26OCT92A	7JUN93	1EC3216 IC03-I..UPGRD INSTRUMTN-BAT PMPS (1N0)																																																											
129910018		U1	C	28OCT92A	4MAR93	1EE0005 CW07-V..INTAKE STRUCTR RF REPAIR (1N0)																																																											
129910018		U1	C	5NOV92A	24MAR93	1E02287 CW07-V..CIRC/WTR BANG LUBE STNR (1N0)																																																											
129910085		U1	C	16NOV92A	5MAY93	1EC3210 CW08-V..ELEC/I&C MODS-VAC/BRKRS (1N0)																																																											
129910085		U1	C	16NOV92A	30MAR93	1EE0012 CW08-V..ELEC PWR-TRVL/SCRN LYDWN (1N0)																																																											
				16NOV92A	16MAR93	1EE0015 FP03-V..TMPR/SWCHS..ELIM T-MOD (1N0)																																																											
069900075		U1	R	16NOV92A	7SEP93	1E02301 RP01-I..AUX BLDG DR(ELIM T-MOD) (1N0)																																																											
129910018		U1	C	16NOV92A	15NOV94	1SC2296 CW02-I..REPAIR WATERBOX STIFFNRS (1N0)																																																											
129910012		U1	R	23NOV92A	9FEB93	1EC EL03-I..PWR-TURB BLD STAG'G AREA (1N0)																																																											
129910018		U1	C	8DEC92A	16JUL93	1EA1036 CW08-I..CHLORINATION ELEC DESIGN (1N0)																																																											
129910018		U1	C	15DEC92A	6APR93	1EE0011 CW08-V..BLWDWN VLVS-138 TRV/SCRN (1N0)																																																											
				18JAN93A	7MAY93	1EC FP03-V..TMPR SWITCH(T-MOD REMVL) (1N0)																																																											
				18JAN93A	22MAR93	1EC HV23-V..SERV BLDG VENTLATN SYS (1N0)																																																											

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						SALEM REVITALIZATION - UNIT 1 - NON OUTAGE																																																																							
129910018		U1	C	2FEB93	19SEP94	1EC CW02-I..CIRC WATER OUTAGE RELATD (1NO)																																																																							
129910018		U1	C	2FEB93	19SEP94	1EC CW08-I..CIRC WTR UPGRADES UNIFIED (1NO)																																																																							
129910018		U1	C	2FEB93	30APR93	1E02293 CW08-V..MOD SCRNM/WSH PMP SHAFTS (1NO)																																																																							
129910045		U1	R	2FEB93	17FEB94	1EC TC01-V..WTHR RESSTNCE/TURB CRANE (1NO)																																																																							
069900149		U1	R	23FEB93	9AUG93	1EC RP03-V..REPL U1 CONTNMNT APD PMP (1NO)																																																																							
069900075		U1	R	5MAR93	9APR93	1E02300 RP01-I..FUEL HDLNG DR-ELIM T-MOD (1NO)																																																																							
129910007		U1	R	12MAR93	19JAN94	1EC WL01-I..ADD MISC DRNS & LINES (1NO)																																																																							
129910004		U1	E	14APR93	12JAN94	1EC WL02-I..AUX BLDG FLR DRN GAS MOD (1NO)																																																																							
069910443		U1	C	15APR93	14SEP94	1EC SW01-V..REPLACE SERV WATER PMP (1NO)																																																																							
129910016		U1	ES2	1JUN93	8JUN94	1EC3222 MP01-I..PLATFRMS, LADDRS & FENCES (1NO)																																																																							
				12JUL93	16MAR94	1EC FP01-V..FIRE PROTECT SYS UPGRADE (1NO)																																																																							
129910032		U1	R	2AUG93	13SEP93	1EC HV13-V..HVAC: UPGRD FLTR UNTS (1NO)																																																																							
129910064		U1	C	12AUG93	9SEP93	1EC CA02-V..UPGRD STN & CTRL AIR (1NO)																																																																							
129910008		U1	C	27AUG93	10CT93	1EC3197 BF01-I S6FD PMP CNTRL OIL SYS (1NO)																																																																							

Plot Date 26FEB93  
 Data Date 29JAN93

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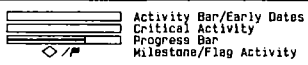
Activity Bar/Early Dates  
 Critical Activity  
 Progress Bar  
 Milestone/Flag Activity

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PSE&G-ENGINEERING & PLANT BETTERMENT  
 INTEGRATED MASTER SCHEDULE  
 PRELIMINARY SALEM PROJECTS

E&PB SCHEDULING - PAUL DUKE X-1777			
Date	Revision	Checked	Approved

RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
						SALEM REVITALIZATION - UNIT 1 - NON OUTAGE																																																											
129910018		U1	C	40CT93	20DEC94																									1EC3230 CW08-I..CWIS TRASH RAKE (1NO)																																			
129910076		U1	R	30DEC93	28JAN94																									1EC FH01-V..FUEL HDLG/SPENT FUEL PL (1NO)																																			
129910092		U1	C	3JAN94	25FEB94																									1EC IC05-V..UPGR.VARIOUS INSTR&CNTRL (1NO)																																			
129910020		U1	R	13MAY94	7JUL94																									1EC CP02-V..WTR SYS' REFURBMNT/UPGRDS (1NO)																																			
129910093		U1	R	6JUL94	30AUG94																									1EC IC04-V..REPLACE ASCO SOLNID VLVS (1NO)																																			
129910087		U1	ES2	1SEP94	1FEB95																									1EC MP02-V..ADD PLTFRM, GRDRL, MNDRL (1NO)																																			
129910079		U1	C	30SEP94	24NOV94																									1EC CM03-V..REPLACE DORIC COMPTR SYS (1NO)																																			
129910072		U1	C	2NOV94	31JAN95																									1EC CM04-V..REPLACE P-250 COMPTR SYS (1NO)																																			
						SALEM PROJECTS - UNIT 2 - NON OUTAGE																																																											
144900040	NRC/CODE/10CFR50.63	N1	RS1	15JUN92A	29DEC93																									2EC3163 SALEM BLACKOUT-"C" BATT RM HTRS (2N/O)																																			
144910001	NRC/DKLT/89-07-20-01	N2	R	21SEP92A	20SEP94																									2EC3179 SALEM UNIT 2 FIRE DAMPERS (2NO)																																			
069900225		U1	R	4FEB93	4NOV94																									2EC DEMIN WTR STORAGE TANK - PRELIM. (2NO)																																			
128900007		U1	R	25AUG93	15JUL94																									2SC HEBA MEBA PROJECT (2NO)																																			
069900236		N2	R	5OCT93	18OCT93																									2EC3057 C.R. - PHS III - TELECOMMUNICATNS (2NO)																																			

Plot Date Data Date	26FEB93 29JAN93		PSE&G-ENGINEERING & PLANT BETTERMENT INTEGRATED MASTER SCHEDULE PRELIMINARY SALEM PROJECTS	Sheet 13 of 24 ESPB SCHEDULING - PAUL DUKE X-1777																			
(c) Primavera Systems, Inc.				<table border="1"> <thead> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Revision	Checked	Approved															
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						SALEM PROJECTS - UNIT 2 - NON OUTAGE.																																																											
128900007		U1	R	8FEB95	18AUG95																									2EZ HEBA/HEBA PROJECT																								(2NO)											
						SALEM REVITALIZATION - UNIT 2 - NON OUTAGE																																																											
129910023		U1	R	17JUN91A	20SEP93	2EC HV04-V..HVAC; TURB-GEN AREA UPGRD (2NO)																																																											
129910086		U1	R	13AUG91A	9JAN95	2EC PL01-V..VARIOUS PWR&LGHTG IMPRVM (2NO)																																																											
129910071		U1	R	24OCT91A	5MAY94	2EC CV01-V..CVL; FIX/SEAL AUX BLD LKG (2NO)																																																											
129920102		U1	C	4NOV91A	25FEB94	2EC II02-V..INCORE SYS ELEC UPGRADES (2NO)																																																											
129920103		U1	R	6MAR92A	7OCT93	2EC HV19-V..RELOCAT PACU-23 CMC SWTH (2NO)																																																											
129910050		U1	C	13APR92A	26AUG94	2EC WL04-V..WASTE LIQUID SYS UPGRADE (2NO)																																																											
129910069		U1	R	2JUL92A	26APR96	2EC PG01-V..SECNDRY PPG/VLV REPLCMNT (2NO)																																																											
129910059		U1	R	6AUG92A	25JUN93	2EC3105 IC01-I..UPGRD RAD/WAS. CNTL PNL (2NO)																																																											
129910015		U1	C	11AUG92A	7JUN93	2EC3138 CP01-I..DEMIN/WTR MOD (88-EL TGA) (2NO)																																																											
129910046		U1	R	21AUG92A	11FEB93	2EC3109 AF01-I..AUX/FEED TACH & T/C INST (2NO)																																																											
129910010		U1	R	29SEP92A	5MAR93	1EC3176 CA01-I..CNTRL AIR/DRYER RPLCMNT (2NO)																																																											
129910055		U1	E	5OCT92A	14DEC93	1EC3209 EL02-I..ELE; PAGE SYS-5 CHNNL (2NO)																																																											

Plot Date Data Date	26FEB93 29JAN93		Activity Bar/Early Dates Critical Activity Progress Bar Milestone/Flag Activity	Sheet 14 of 24 <b>PSE&amp;G-ENGINEERING &amp; PLANT BETTERMENT          INTEGRATED MASTER SCHEDULE          PRELIMINARY SALEM PROJECTS</b>	E&PB SCHEDULING - PAUL DUKE X-1777 <table border="1"> <thead> <tr> <th>Date</th> <th>Revision</th> <th>Checked</th> <th>Approved</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	Date	Revision	Checked	Approved												
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						SALEM REVITALIZATION - UNIT 2 - NON OUTAGE																																																											
129910018		U1	C	8OCT92A	22MAR94	1SC2295 CW08-V..SCREEN WASH PUMPS (2NO)																																																											
129910018		U1	C	12OCT92A	4MAR93	2E02285 CW07-V..VACUUM BRKRS & GOOSNECKS (2NO)																																																											
129910085		U1	C	13OCT92A	7SEP93	1SC2298 CW08-V..SWXGR HSE & TRENCH (2NO)																																																											
129910025		U1	R	13OCT92A	9NOV93	2EC HV07-V..HVAC; FUEL. HNDLG BLD UPGRD (2NO)																																																											
129910058		U1	C	26OCT92A	15DEC93	1EC3216 IC03-I..BORC ACID EVPR.I&C UPGRD (2NO)																																																											
129910058		U1	C	26OCT92A	8JUN93	1EC3216 IC03-I..UPGRD INSTRUMTN-BAT PMPS (2NO)																																																											
129910085		U1	C	5NOV92A	24MAR93	2E02282 CW07-V..CIRC/WTR BRNG LUBE STRNR (2NO)																																																											
129910085		U1	C	16NOV92A	10FEB93	1EC3210 CW08-V..ELEC/I&C MODS-VAC/BRKRS (2NO)																																																											
069900075		U1	R	16NOV92A	7SEP93	1E02300 RP01-I..FUEL HDLNG DR-ELIM T-MOD (2NO)																																																											
129910018		U1	C	16NOV92A	15NOV94	1SC2296 CW02-I..REPAIR WATERBOX STIFFNRS (2NO)																																																											
				16NOV92A	7MAY93	2EC FP03-V..TMPR SWITCH (T-MOD REMVL) (2NO)																																																											
129910018		U1	C	23NOV92A	6APR93	1EC3212 CW08-V..REPLACE P787 PANELS (2NO)																																																											
129910018		U1	C	3DEC92A	23APR93	1EC3211 CW08-V..BEARING LUBE WTR INST (2NO)																																																											
				1FEB93A	12FEB93	1EE0015 FP03-V..TMPR/SWCHS..ELIM T-MOD (2NO)																																																											

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Activity Bar/Early Dates  
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						SALEM REVITALIZATION - UNIT 2 - NON OUTAGE																																																											
129910018		U1	C	2FEB93	30NOV94	2EC CW02-I..CIRC WATER OUTAGE RELATD (2NO)																																																											
129910018		U1	C	2FEB93	30NOV94	2EC CW08..CIRC WATER UPGRADES UNIFIED (2NO)																																																											
129910045		U1	R	2FEB93	7APR94	2EC TC01-V..WEATHR RESIST/TURB CRANE (2NO)																																																											
129910008		U1	C	23FEB93	29MAR93	2EC3170 BF01-I..SGFD PMP CNTRL OIL SYS (2NO)																																																											
129910007		U1	R	12MAR93	7JAN94	2EC WL01-I..ADD MISC DRAINS & LINES (2NO)																																																											
129910004		U1	E	14APR93	13JAN94	2EC WL02-I..AUX BLDG FLR DRN GAS MOD (2NO)																																																											
129910064		U1	ES2	1JUN93	8JUN94	2EC3194 MP01-I..PLATFORMS,LADDRS & FENCES (2NO)																																																											
129910064		U1	C	12AUG93	9SEP93	2EC CA02-V..UPGRADE STATN & CTRL AIR (2NO)																																																											
069910443		U1	C	3JAN94	14SEP94	2EC SW01-V..REPLACE SERV WTR PUMPS (2NO)																																																											
129910092		U1	C	28FEB94	22APR94	2EC IC05-V..UPGR VARIOUS INSTR&CNTRL (2NO)																																																											
129910087		U1	ES2	7MAR94	24JUN94	2EC MP02-V..ADD PLTFRM, GRDRL, MONDRL (2NO)																																																											
129910072		U1	C	2MAY94	29JUL94	2EC CM04-V..REPLACE P-250 COMPTN SYS (2NO)																																																											
129910020		U1	R	13MAY94	7JUL94	2EC CP02-V..WTR SYS REFURBMNT/UPGRDS (2NO)																																																											
129910076		U1	R	6JUN94	29JUL94	2EC FH01-V..FUEL HNDLG/SPENT FUEL PL (2NO)																																																											

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Activity Bar/Early Dates  
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						SALEM REVITALIZATION - UNIT 2 - NON OUTAGE																																																																							
129910093		U1	R	6JUL94	30AUG94																																																	2EC IC04-V..REPLCE ASCO SOLENOID VLV (2ND)																							
129910079		U1	C	27SEP95	21NOV95																																																	2EC CM03-V..REPLACE DORIC COMPTR SYS (2ND)																							
						HOPE CREEK PROJECTS - FUNCTIONAL PROJECTS																																																																							
144900001		U1	C	1APR88A	16DEC96	1EC SALEM U#1&#2 CONFIG BASELINE DOCUMTN																																																																							
144900001		U1	C	28FEB89A	19JUL96	1EC SALEM U#1&#2 ENG RECOVERY PROJECT																																																																							
124900003		U1	C	2JAN93A	16DEC97																									1EC SALEM U#1&#2 DATA INFORM MGMT PROJ																																															
125900017	NRC/GL/89-10	N2	R	4JAN93A	24JUN94																									1EC SALEM UTS #1 & #2 G.L.0#89-10 PROJ																																															
144900001		U1	C	4JAN93A	29DEC97																									1EC SALEM U#1&#2 DISCREP MANAGEMENT PROJ																																															
143910002		U1	R	29JAN93	30JUN97																									1EC SALEM U#1&#2 SAFETY SYS FUNCT ANALY																																															
						SALEM PROJECTS - UNIT 2 - 8TH REFUELING OUTAGE																																																																							
069900202		U1	C	1APR92A	4NOV94	1SC2269 500-13.8KV SWITCHYARD UPGRADE (2R8)																																																																							
126910017	NRC/VIOL/272/89-1304	N2	R	28MAY92A	8FEB95	2EC REG GUIDE 1.97 (2R8)																																																																							
069910448		U1	R	28AUG92A	4NOV94	2EC CHARGING PUMPS - AUTO RECIRC VLVS (2R8)																																																																							
069920449		U1	C	1DEC92A	25OCT94	2EC REPLACE ROOM COOLERS (2R8)																																																																							
144910001	NRC/DKLT/89-07-20-01	N2	R	28DEC92A	28OCT94	2EC3179 SALEM UNIT 2 FIRE DAMPERS (2R8)																																																																							

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SALEM PROJECTS - UNIT 2 - 8TH REFUELING OUTAGE																																			
122910001	NSO/LER/272/91-03600	N2	C	29JAN93	4NOV94							2EC AUX FEED FLOW MODS (2R8)																							
069920450		U1	C	4FEB93	29APR96							2EC CFCU MOTOR COOLERS-PRELIM. (2R8)																							
125911000	NRC/OPEN/311-90-8121	N2	R	4FEB93	4NOV94							2EC CONTAINMENT LINER PLATE - PRELIM. (2R8)																							
125914001	WEST/SALE/PSE-90-743	N2	R	1SEP93	30SEP94							2EC RX HEAD VENT - PRELIM. (2R8)																							
148900028		U1	C	7OCT93	4NOV94							2EC MAIN STEAM FLOW MEASURE (2R8)																							
128900007		U1	R	13DEC93	4NOV94							2EC HEBA MEBA PROJECT (2R8)																							
144910010		U1	R	4JAN94	20OCT94							2EC3185 UNIT 2 STEAM GENERATOR FEED PIPING (2R8)																							
144910010		U1	R	4JAN94	20OCT94							2EC3186 UNIT 2 ST-901 PIPING (2R8)																							
144910009		U1	R	4JAN94	28OCT94							2EC3187 UNIT 2 STATION AIR COMPRESSOR PIPING (2R8)																							
144910005		U1	R	4JAN94	20OCT94							2EC3188 UNIT 2 ADDED TURBINE AUX COOLING (2R8)																							
148900048	NRC/OPEN/272-89-10F1	N2	R	1JUN94	4NOV94							2EC RMS FULL REPLACEMENT-PRELIM. (2R8)																							
SALEM REVITALIZATION - UNIT 2 - 8TH RFO																																			
129910035		U1	R	1JUN91A	21OCT94							2EC HV16-V. HVAC: UPGR TRND0/MISS PRO (2R8)																							
129910049		U1	R	5AUG91A	28OCT94							2EC II01-V. INCORE SYS MECH UPGRADES (2R8)																							

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Activity Bar/Early Dates  
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						SALEM REVITALIZATION - UNIT 2 - 8TH RFO																													
129910087		U1	ES2	7AUG91A	7NOV94	2EC MP02-V..ADD PLTFRM,GRDRL,MONORL (2RB)																													
129910043		U1	R	10CT91A	15NOV94	2EC VL06-V..REPLC VC1-6 CNTMNT VLV (2RB)																													
129910051		U1	R	140CT91A	11NOV94	2EC MS01-V..REPLC L P MSR BUNDLS (2RB)																													
129910070		U1	R	210CT91A	3MAY96	2EC IN01-V..UPGRD INSULATN - RCP&SG (2RB)																													
129910093		U1	R	5NOV91A	280CT94	2EC IC04-V..REPLCE ASCO SOLENOID VLV (2RB)																													
129910029		U1	R	2JAN92A	11NOV94	2EC HV10-V..HVAC: INBRD & OUTBRD PENE (2RB)																													
				24FEB92A	280CT94	2EC HV21-V..EXPAND CNTRL RM ENVELOP (2RB)																													
129910083		U1	C	9MAR92A	280CT94	2EC PM01-V..REPL/UPGRD VARIOUS PMPS (2RB)																													
129910020		U1	R	16MAR92A	280CT94	2EC CP02-V..WTR SYS REFURBMNT/UPGRDS (2RB)																													
129910022		U1	R	16MAR92A	280CT94	2EC HV03-V..HVAC: SPAV REFURB (2RB)																													
129910020		U1	R	16MAR92A	140CT94	2EC VL07-V..CP MAN & CNTRL VLV UPGRD (2RB)																													
129910072		U1	C	18MAR92A	2DEC94	2EC CM04-V..REPLACE P-250 COMPTR SYS (2RB)																													
129910025		U1	R	1MAY92A	280CT94	2EC HV06-V..HVAC: AUX BLDG REFURB (2RB)																													
				4MAY92A	280CT94	2EC FP02-V..FIRE DETECT SYS UPGRADE (2RB)																													

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SALEM REVITALIZATION - UNIT 2 - 8TH RFO						2EC PZ01-V..PRESRZR PPG&CBL RPLCMNT (2R8)																																																											
129910065		U1	R	22JUN92A	11NOV94	2EC PG01-V..SECNDRY PPG/VLV REPLCMNT (2R8)																																																											
129910069		U1	R	2JUL92A	4NOV94	2EC CA02-V..UPGRADE STATN & CTRL AIR (2R8)																																																											
129910064		U1	C	17JUL92A	7OCT94	2EC FH01-V..FUEL HNDLG/SPENT FUEL PL (2R8)																																																											
129910076		U1	R	23JUL92A	11NOV94	2EC3173 CS01-V..CS6 VLV SPOOL RPLCMNT (2R8)																																																											
121910080		U1	R	16SEP92A	21OCT94	2EC BA01-V..BORIC ACID CONCTR REDCTN (2R8)																																																											
129910081		U1	R	23SEP92A	9NOV94	2EC IC05-V..UPGR VARIOUS INSTRCENTAL (2R8)																																																											
129910047		U1	C	23SEP92A	20OCT94	2EC SG02-V..IMPRV STM GEN RELBLTY/M (2R8)																																																											
129910047		U1	C	20CT92A	4NOV94	2SC22B3 CW02-I..AR VLV/INGRSS MON/VAC PP (2R8)																																																											
129910018		U1	C	50CT92A	24JAN95	2SC2292 CW02-I..WTRBX MANWAYS & TBESHT (2R8)																																																											
129910018		U1	C	15OCT92A	17FEB95	2EC3148 VL01-I..CA & NT VLV REPLACEMENT (2R8)																																																											
129910014		U1	R	2NOV92A	30DEC94	2EC TL01-V..TURB LUBE OIL UPGRADES (2R8)																																																											
129910056		U1	R	23NOV92A	4NOV94	2EC3I97 VL02-I..GB4 & AF23 VLV MODIFCTNS (2R8)																																																											
129910002		U1	R	7JAN93A	13JAN95	2EC CH01-V..CHILLED WTR SYS UPGRADES (2R8)																																																											
129910057		U1	R	19JAN93A	28OCT94																																																												

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RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
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SALEM REVITALIZATION - UNIT 2 - 8TH RFO																																																																	
129910085		U1	C	1FEB93A	19JAN95																									1SC2297 CW08-V..CONTROL HSE: XGR TIE IN (2R8)																																			
129910078		U1	R	2FEB93	11NOV94																									2EC SG01-V..STM GEN FEEDPUMP CONTROL (2R8)																																			
129910084		U1	C	9FEB93	28OCT94																									2EC EL07-V..ELECT: IMPRV CMPNT MAIN (2R8)																																			
129910074		U1	R	24FEB93	14OCT94																									2EC EL08-V..ELECT: EMER LIGHT INVER (2R8)																																			
129910053		U1	R	22MAR93	9JAN95																									2EC3178 CM02-V..DIGITIZE FDWTR CTRL SYS (2R8)																																			
129910079		U1	C	23APR93	5DEC95																									2EC CM03-V..REPLACE DDRIC COMPTR SYS (2R8)																																			
129910046		U1	R	24MAY93	28OCT94																									2EC EL09-V..REPL INSTR RLYS AC/SWGR (2R8)																																			
129910048		U1	C	24MAY93	31OCT94																									2EC WG01-V..WASTE GAS SYS UPGRADES (2R8)																																			
129910016		U1	ES2	1JUN93	9JAN95																									2EC3195 MP01-I..PLATFORMS, LADDRS & FENCES (2R8)																																			
129910018		U1	C	1SEP93	24FEB95																									2EC3201 CW02-I..REPLACE BEARING LUBE PPG (2R8)																																			
129910091		U1	R	5SEP94	19OCT94																									2EC IC06-V..MISC I&C UPGRADES (2R8)																																			
SALEM PROJECTS - UNIT 1 - 12TH REFUELING OUTAGE																																																																	
069910448		U1	R	28AUG92A	26APR95																									1EC CHARGING PUMPS - AUTO RECIRC VLVS (1R12)																																			
069920449		U1	C	27SEP93	28APR95																									1EC REPLACE ROOM COOLERS (1R12)																																			

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RAP	ATS	ISP	KSF	START	FINISH	1992				1993				1994				1995				1996													
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SALEM PROJECTS - UNIT 1 - 12TH REFUELING OUTAGE																																			
069920450		U1	C	10CT93	22NOV96							1EC CFCU MOTOR COOLERS-PRELIM. (1R12)																							
125911000	NRC/OPEN/311-90-8121	N2	R	10CT93	8MAY95							1EC CONTAINMENT LINER PLATE - PRELIM. (1R12)																							
069910638		U1	R	10CT93	8MAY95							1EC ST901 VLV HIGH VIBRATN - PRELIM. (1R12)																							
126910017	NRC/VIOL/272/B9-1304	N2	R	14OCT93	28APR95							1EC UNIT #1 REG. GUIDE 1.97 (1R12)																							
144910005		U1	R	18FEB94	27APR95							1EC3237 UNIT 1 ADDED TURBINE AUX COOLING (1R12)																							
144910007		U1	R	18FEB94	27APR95							1EC3238 UNIT 1 STEAM GENERATOR FEED PIPG (1R12)																							
144910009		U1	R	18FEB94	27APR95							1EC3239 UNIT 1 STATION AIR COMPRESSOR PIPING (1R12)																							
128900007		U1	R	10JUN94	8MAY95							1SC HEBA/HEBA PROJECT (1R12)																							
148900048	NRC/OPEN/272-B9-10F1	N2	R	5JUL94	8MAY95							1EC RMS FULL REPLACEMENT - PRELIM. (1R12)																							
SALEM REVITALIZATION - UNIT 1 - 12TH RFO																																			
129910035		U1	R	1JUN91A	28APR95							1EC HY16-V..HVAC:UPGR TRND0/MISS PRD (1R12)																							
129910049		U1	R	5AUG91A	5MAY95							1EC II01-V..INCORE SYS MECH UPGRADES (1R12)																							
129910087		U1	ES2	7AUG91A	23MAY95							1EC MP02-V..ADD PLTFRM, GRDRL, MONORL (1R12)																							
129910043		U1	R	1OCT91A	23MAY95							1EC VL06-V..REPLC VC1-6 CONTMNT ISO (1R12)																							

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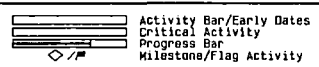
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SALEM REVITALIZATION - UNIT 1 - 12TH RFO						1EC MS01-V...REPLC L P MSR BUNDLS (1R12)																													
129910051		U1	R	14OCT91A	19MAY95	1EC IN01-V...UPGRD INSULATN ON RCP&SG (1R12)																													
129910070		U1	R	21OCT91A	8NOV96	1EC IC04-V...REPLACE ASCO SOLNID VLVS (1R12)																													
129910093		U1	R	5NOV91A	9MAY95	1EC HV21-V...EXPNDL CNTRL RM ENVELOP (1R12)																													
				24FEB92A	5MAY95	1EC PM01-V...REPL/UPGRD VARIOUS PMPS (1R12)																													
129910083		U1	C	9MAR92A	5MAY95	1EC CP02-V...WTR SYS REFURBMNT/UPGRDS (1R12)																													
129910020		U1	R	16MAR92A	5MAY95	1EC HV03-V...HVAC: SPAV REFURB (1R12)																													
129910020		U1	R	16MAR92A	5MAY95	1EC VL07-V...CP MAN & CNTRL VLV UPGRD (1R12)																													
129910020		U1	R	16MAR92A	25OCT96	1EC CM04-V...REPLACE P-250 CMPTR SYS (1R12)																													
129910072		U1	C	18MAR92A	9JUN95	1EC HV06-V...HVAC: AUX BLDG REFURB (1R12)																													
129910025		U1	R	1MAY92A	9MAY95	1EC FP02-V...FIRE DETECT SYS UPGRADE (1R12)																													
				4MAY92A	9MAY95	1EC PZ01-V...PRESRZR PP6&CBL RPLCMNT (1R12)																													
129910065		U1	R	22JUN92A	19MAY95	1EC PG01-V...SECNDRY PP6/VLV REPLCMNT (1R12)																													
129910069		U1	R	2JUL92A	12MAY95	1EC FH01-V...FUEL HDLG/SPENT FUEL PL (1R12)																													
129910076		U1	R	23JUL92A	19MAY95																														

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RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996																																																											
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						SALEM REVITALIZATION - UNIT 1 - 12TH RFO																																																																																																											
129910084		U1	C	22SEP92A	5MAY95	1EC EL07-V. ELECT: IMPRV CMPNT MN (1R12)																																																																																																											
129910092		U1	C	23SEP92A	27APR95	1EC IC05-V. UPGR VARIOUS INSTR&CNTRL (1R12)																																																																																																											
129910047		U1	C	20OCT92A	12MAY95	1EC SG02-V. STM GEN RELBLTY/MAINT (1R12)																																																																																																											
129910050		U1	C	10NOV92A	25OCT96	1EC NR02-V. NON-RAD LIQ WASTE UPGRD (1R12)																																																																																																											
129910056		U1	R	23NOV92A	12MAY95	1EC TL01-V. TURB LUBE OIL UPGRADES (1R12)																																																																																																											
129910057		U1	R	19JAN93A	5MAY95	1EC CH01-V. CHILLED WTR SYS UPGRADES (1R12)																																																																																																											
129910079		U1	R	2FEB93	19MAY95	1EC SG01-V. STM GEN FEEDPUMP CNTRLS (1R12)																																																																																																											
129910079		U1	C	23APR93	19MAY95	1EC CM03-V. REPLACE DORIC COMPTR SYS (1R12)																																																																																																											
129920096		U1	R	24MAY93	5MAY95	1EC EL09-V. RPL CO4 INST RLY AC/SWGR (1R12)																																																																																																											
129910054		U1	R	31JAN94	19MAY95	1EC CM05-V. ROD POSTN IND UPG (MAP1) (1R12)																																																																																																											
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**E&PB**

**INTEGRATED MASTER SCHEDULE**

**HOPE CREEK PROJECTS**

Issue Date: February 12, 1993

RAP	ATS	ISP	KSF	START	FINISH	1992												1993												1994												1995												1996											
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						HOPE CREEK PROJECTS - 4TH REFUELING OUTAGE																																																											
						4EC3182 TRANSMITTER POWER LEADS (4R4)																																																											
102900113		U1	R	12OCT92A	1MAR93	4HC0204 TEST POINTS/SWITCHES (4R4)																																																											
106900013		U1	R	29JAN93	27APR93	4HC0220 SACS VALVES (4R4)																																																											
						SALEM PROJECTS - 5TH REFUELING OUTAGE																																																											
144900039	NRC/CODE/10CFR50.63	N1	RS1	15JUN92A	6MAY94	4EC3372 HOPE CREEK STATION BLACKOUT (4R5)																																																											
						HOPE CREEK PROJECTS - 5TH REFUELING OUTAGE																																																											
102900125		U1	C	25JAN92A	29APR94	4HC0154 FEEDWATER CONTROL SYS (4R5)																																																											
106900001		U1	R	1JUL92A	15APR94	4EC3112 SW "B" LOOP SUPPLY & VLVS (4R5)																																																											
106900006		U1	C	8SEP92A	19APR94	4EC1021 SNUBBER REDUCTION (4R5)																																																											
106900013		U1	R	23NOV92A	1APR94	4HC0220 SACS VALVES (4R5)																																																											
102900115		U1	CS2	17DEC92A	22APR94	4EC3387 UPGRADE DRYWELL AREA LIGHTING (4R5)																																																											
131900003		U1	C	21DEC92A	15JUL94	4EC3344 IRON RED/DAN/PPG/PNL (4R5)																																																											
106900007		U1	C	4JAN93A	29APR94	4EC3008 GS VALVES (4R5)																																																											
101900006		U1	C	11JAN93A	8APR94	4EC3316 SEPARATE RMS ALARMS (4R5)																																																											
121910002		U1	C	29JAN93	14MAR94	4EC1041 MSIV POPPET CHANGE (4R5)																																																											

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						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
HOPE CREEK PROJECTS - 5TH REFUELING OUTAGE																																																																	
102900082		U1	R	29JAN93	28MAR94													4EC3023 CONDENSATE TRANSFER WATER HAMMER (4R5)																																															
107910003		U1	R	7MAR94	14APR94																									4EC3343 NAMCO QUICK DISCONNECT (4R5)																																			
102900134		U1	C	9MAR94	16MAR94																									4HC0242 HWC DATA COLLECTION (4R5)																																			
HOPE CREEK PROJECTS - 6TH REFUELING OUTAGE																																																																	
101900006		U1	C	29JAN93	17NOV93													4EC3001 RMS COMPUTER ALARM UPGRADE (4R6)																																															
122900003		U1	C	29JAN93	26MAY95													4EC3192 NSSS COMPUTER (4R6)																																															
131900003		U1	C	29JAN93	12MAY94													4EC3344 IRON REDUCTION - LONG TERM OPTION (4R6)																																															
102900006		U1	R	29JAN93	20DEC95													4EC CORE STABILITY HARDWARE (4R6)																																															
HOPE CREEK PROJECTS - 1992 NON OUTAGE																																																																	
				29JAN93	17JUN93													4EC3182 TRANSMITTER POWER LEADS (1992)																																															
HOPE CREEK PROJECTS - 1993 NON OUTAGE																																																																	
102900002		U1	R	10AUG92A	1APR94													4EC3348 RM RESTART PROJECT (1993)																																															
126910021		U1	R	12JAN93A	19FEB93													4EC DIESEL BACKED 120VAC/1BC201 (1993)																																															
		U1		22JAN93A	10SEP93													4EC3182 TRANSMITTER POWER LEADS (1993)																																															
102900080		U1	R	29JAN93	18FEB93													4EC3020 REPLACE CEILING-RADWASTE BLDG (1993)																																															

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						HOPE CREEK PROJECTS - 1993 NON OUTAGE																																																											
102900082		U1	R	29JAN93	7FEB94	4EC3023 CONDENSATE TRANSFER WATER HAMMER, (1993)																																																											
131900003		U1	C	29JAN93	20JUL93	4EC3344 IRON RED/DRN/PPG/PNL (1993)																																																											
						HOPE CREEK PROJECTS - 1994 NON OUTAGE																																																											
101900006		U1	C	6JUL92A	6OCT94	4EC3001 RMS COMPUTER ALARM UPGRADE (1994)																																																											
115900003		U1	R	2NOV92A	26SEP94	4EC3296 FIRE PROT COMPUTER (1994)																																																											
102901249		U1		29JAN93	8FEB93	4EC3059 HILLER VALVE STEMS (1994)																																																											
				29JAN93	4FEB93	4EC3182 TRANSMITTER POWER LEADS (1994)																																																											
131900003		U1	C	29JAN93	26NOV93	4EC3206 REMOVE IRON REDUCTION TEST SKID (1994)																																																											
						HOPE CREEK PROJECTS - 1995 NON OUTAGE																																																											
102900134		U1	C	22JUN92A	13NOV95	4HC0242 PERMANENT H2/O2 STORAGE FACILITY (1995)																																																											
						SALEM PROJECTS - NON OUTAGE																																																											
126910006	NRC/CODE/10CFR50APPE	N1	R	7DEC92A	12FEB93	4EC3301 ERDS NRC LINK (HOPE CREEK) (NO)																																																											
102900008		E2	R	25JAN93A	2APR93	4EC3124 COOLING TOWER SUMP PUMPS (NO)																																																											
						HOPE CREEK PROJECTS - FUNCTIONAL PROJECTS																																																											
144900002		U1	C	17JUL89A	17DEC97	4EC HC CONFIGURATION BASELINE DOC.																																																											
124900003		U1	C	2JAN93A	29DEC97	HOPE CREEK DATA INFORMATION MANAGEMENT SYSTEM																																																											

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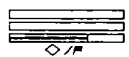
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						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D
						HOPE CREEK PROJECTS - FUNCTIONAL PROJECTS																																																											
125900017	NRC/INSP/354/91-8001	N2	R	4JAN93A	24JUN94	4EC HC GENERIC LETTER #89-10 #A-4084.0																																																											
144900002		U1	C	29JAN93	24JAN97	HOPE CREEK DISCREPANCY MANAGEMENT PROJECT																																																											
143910003		U1	R	29JAN93	30JUN97	HOPE CREEK SAFETY SYSTEM FUNCTION ANALYSIS																																																											
						HOPE CREEK PROJECTS - 7TH REFUELING OUTAGE																																																											
122900003		U1	C	29JAN93	6NOV95	4EC3192 NSSS COMPUTER (4R7)																																																											
						HOPE CREEK PROJECTS - FUTURE REFUELING OUTAGE																																																											
102900082		U1	R	11JAN93A	3JAN95	4EC3023 PMP START PARAM/CTL & CHECK VALVES ( )																																																											
111111111		U1	R	29JAN93	23JUN93	4EC3385 UPGRADE 13KV POWER LOOP																																																											

Plot Date 26FEB93  
 Data Date 29JAN93


 Activity Bar/Early Dates  
 Critical Activity  
 Progress Bar  
 Milestone/Flag Activity

Sheet 4 of 4  
**PSE&G-ENGINEERING & PLANT BETTERMENT  
 INTEGRATED MASTER SCHEDULE  
 PRELIMINARY HOPE CREEK PROJECTS**

EG&P SCHEDULING - PAUL DUKE X-1777			
Date	Revision	Checked	Approved

**E&PB**

**INTEGRATED MASTER SCHEDULE**

**ARTIFICIAL ISLAND PROJECTS**

Issue Date: February 12, 1993

RAP	ATS	ISP	KSF	START	FINISH	1992				1993				1994				1995				1996																									
						J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J	J	A	S	O	N	D	J	F	M	A	M	J
						HOPE CREEK PROJECTS																																									
121910006		E1	R	8NOV91A	5JUL96	SEC DPCC																																									
133900004	NRC/OPEN/354/B9-14F3	N2	R	27MAY92A	27JUL93	SEC3029 AUTO ACCOUNTABILITY SYS- ARTIF ISL																																									
102920229		E2	R	5NOV92A	3SEP93	SEC A92007 MODS TO SEWAGE LIFT STATIONS																																									

Plot Date 26FEB93  
Data Date 29JAN93


 Activity Bar/Early Dates  
 Critical Activity  
 Progress Bar  
 Milestone/Flag Activity

Sheet 1 of 1

PSE&G-ENGINEERING & PLANT BETTERMENT  
INTEGRATED MASTER SCHEDULE  
PRELIM ARTIFICIAL ISLAND PROJECTS

E&PB SCHEDULING - PAUL DUKE X-1777

Date	Revision	Checked	Approved

**E&PB**

**INTEGRATED MASTER SCHEDULE**

**FUNCTIONAL GROUP**

Issue Date: February 12, 1993