

DIRECT TESTIMONY OF RICHARD A. ZWOLAK, AICP

1 will recycle water to the greatest extent possible, but the
2 Project will still need approximately 3.55 mgd of water on an
3 annual average basis. The additional water needs will be met
4 from three new on-site wells (2 active; 1 standby). The peak
5 daily water consumption is projected to be 4.79 mgd.

6 Based on the current plan to use .8 mgd of reclaimed
7 water, the project will withdraw approximately 2.75 mgd
8 (annual average) of ground water initially, but will likely
9 decrease that withdrawal rate as the supply of reclaimed
10 water increases. When .8 mgd of reclaimed water is used, the
11 peak withdrawal will be approximately 3.99 mgd.

12 There will not be any on-site discharges of industrial
13 or domestic wastewater to any surface or ground water. All
14 the wastewater from the plant will be sent by pipeline to the
15 City of Auburndale's wastewater treatment facilities for
16 disposal.

17 The Project's use of groundwater will not adversely
18 affect wetlands, surface waters, or existing legal uses of
19 water. A numerical computer model, Visual MODFLOW, was used
20 to evaluate several different operating scenarios. That
21 analysis demonstrates that the Project's groundwater
22 withdrawals will cause a drawdown at the site boundary of
23 only 0.36 feet in the surficial aquifer and only 2.8 feet in
24 the Upper Floridan aquifer. The impacts are well within the

DOCUMENT NUMBER-DATE

12

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FPSC-RECORDS/REPORTING

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1 ("USFWS") were found on-site, although it is possible some species
2 may forage on or traverse portions of the site. No areas
3 characterized as ecologically unique or sensitive are found on-
4 site. In summary, the Project will not have significant ecological
5 effects on the site or the region.

6 Land Use and Socioeconomics

7 The proposed site is located in an incorporated portion of Polk
8 County. The only local government comprehensive plan applicable to
9 the Osprey Energy Center is the City of Auburndale Comprehensive
10 Plan, as adopted on March 18, 1991 and last amended on January 8,
11 2001. A Future Land Use Map amendment for the City of Auburndale
12 Comprehensive Plan was sent to the Department of Community Affairs
13 ("DCA") to request that the proposed site be designated as Future
14 Land Use category Business Park Centers. The DCA found the
15 proposal in compliance with Ch. 163.3184, 163.3187 and 163.3189,
16 F.S. Central Florida Regional Planning Council found the proposal
17 consistent with their Strategic Regional Policy Plan. On February
18 21, 2000, the Auburndale Planning Commission and the City
19 Commission found the Osprey Project to be consistent and in
20 compliance with the City of Auburndale Comprehensive Plan and land
21 use designation of Business Park Centers.

22 Surrounding and nearby land uses are the adjacent Auburndale
23 Power Plant, the City of Auburndale's wastewater treatment
24 facilities, a Cutrale citrus processing plant, a Florida
25 Distillers distillery, and another citrus processing plant owned
26 by SFE Citrus Processors, Ltd. Additionally, the

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1 Tampa Electric Company Recker Substation is adjacent to the
2 proposed Osprey Energy Center.

3 The proposed zoning district for the site is LI-Light
4 Industrial as defined in Chapter 5, Section 5.6.14,
5 Auburndale Land Development Regulations ("LDR"), adopted
6 November 4, 1991. The adjacent gas-fired combined-cycle
7 Auburndale Power Plant has a future land use plan
8 classification of Business Park Centers and is zoned Light
9 Industrial by Polk County. The Light Industrial zoning
10 district from the City of Auburndale is consistent with the
11 Light Industrial zoning district used by Polk County for the
12 adjacent power plant. The designation of the Project site as
13 a Light Industrial zoning district is consistent with the
14 existing zoning patterns and the existing and future land use
15 patterns of the adjacent properties and is suitable for the
16 proposed Project.

17 The site does not contain any parks, recreation areas,
18 or natural resource areas. The State Division of Historical
19 Resources has concluded that the Project will have no effect
20 on known or potential historical or archaeological resources.

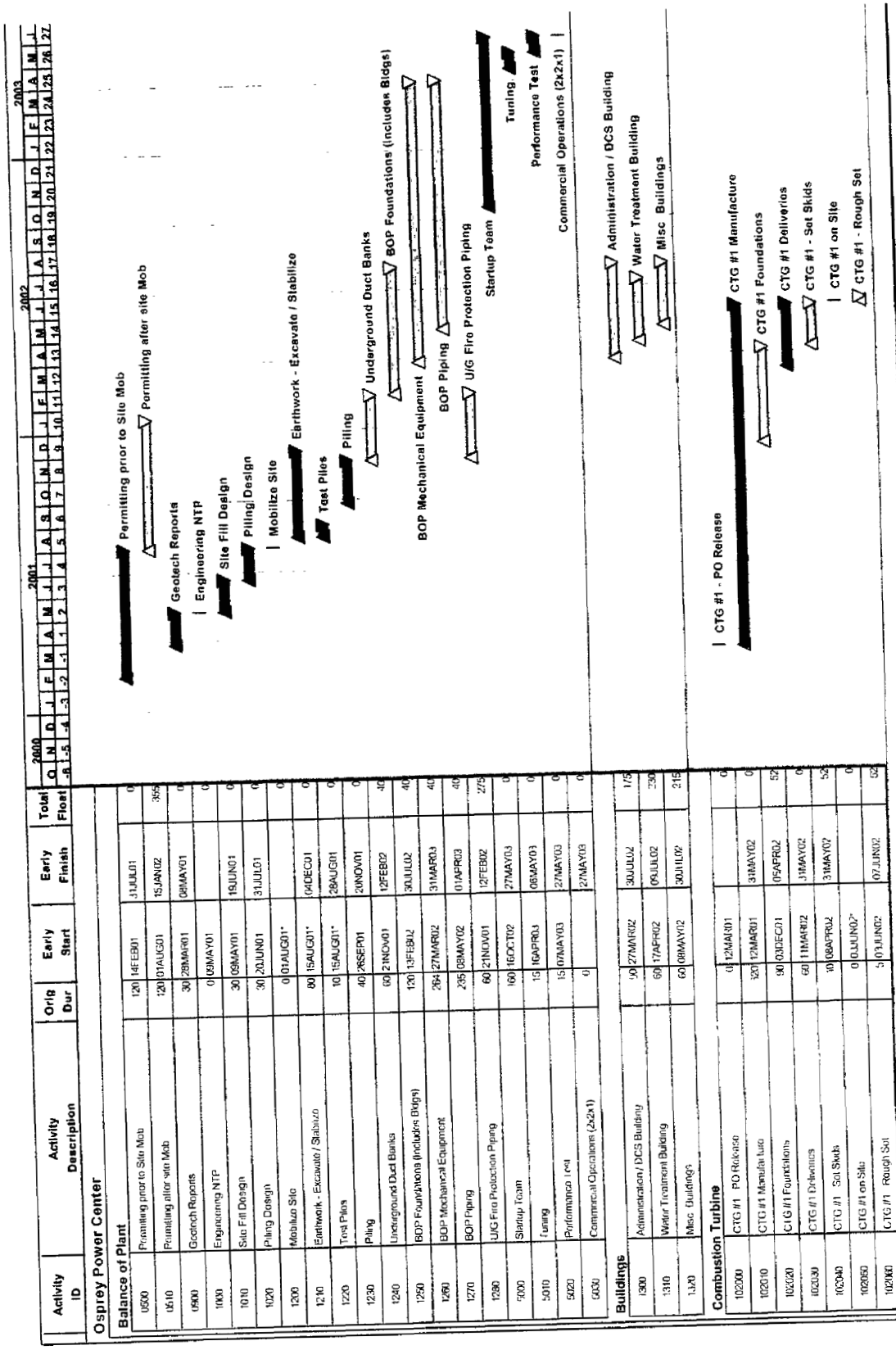
21 The Project will have a positive effect on local
22 economies. The construction workforce needed for the Project
23 (up to 162 people during the construction period) will mean
24 more employment opportunities and more direct and indirect

balance of plant equipment. This contract will be awarded prior to the issuance of the site certification, which is expected in August 2001. The Project is scheduled to achieve commercial in-service status by the second quarter of 2003. The Project engineering and construction schedule is depicted in Figure II-16.

K. Regulatory and Permitting Schedules.

The Joint Applicants filed their Amended Joint Petition on January 8, 2001, and the accompanying volumes of Amended Exhibits for the Project on January 10, 2001. The need determination hearing is expected to be held in February 2001. The Commission's order is expected in February or March 2001. Calpine filed the Site Certification Application ("SCA") for the Project on March 16, 2000, and the Department of Environmental Protection issued its notice that the SCA was complete on March 31, 2000. The only agency that filed insufficiency comments was the Southwest Florida Water Management District. Calpine responded to the District's questions in August 2000, and supplemented those responses in October 2000. Staff recommended approval of and the Governing Board of the Southwest Florida Water Management District approved the water use withdrawal plan on January 30, 2001. The land use hearing was held on January 23, 2001. The site certification hearing is expected to be held on April 17 and 18, 2001. Final certification by the Siting Board is expected by October 2001. Details of the site certification schedule are shown in Figure II-17 of these Amended Exhibits.

**FIGURE II-16 (REVISED)
OSPREY ENERGY CENTER
PRELIMINARY PROJECT SCHEDULE**



Legend:
 Early Bar: Thin line
 Progress Bar: Medium line
 Critical Activity: Thick line

Activity Legend:
 Permitting prior to Site Mob
 Permitting after site Mob
 Geotech Reports
 Engineering NTP
 Site Fill Design
 Piling Design
 Mobilize Site
 Earthwork - Excavate / Stabilize
 Test Piles
 Piling
 Underground Duct Banks
 BOP Foundations (includes Bvign)
 BOP Mechanical Equipment
 BOP Piping
 UIG Fire Protection Piping
 Startup Team
 Tuning
 Performance Test
 Commercial Operations (24x7)

Buildings Legend:
 Administration / DCS Building
 Water Treatment Building
 Misc Buildings

Combustion Turbine Legend:
 CTG #1 - PO Release
 CTG #1 Manufacture
 CTG #1 Foundations
 CTG #1 Deliveries
 CTG #1 - Set Skids
 CTG #1 on Site
 CTG #1 - Rough Set

Summary Table:

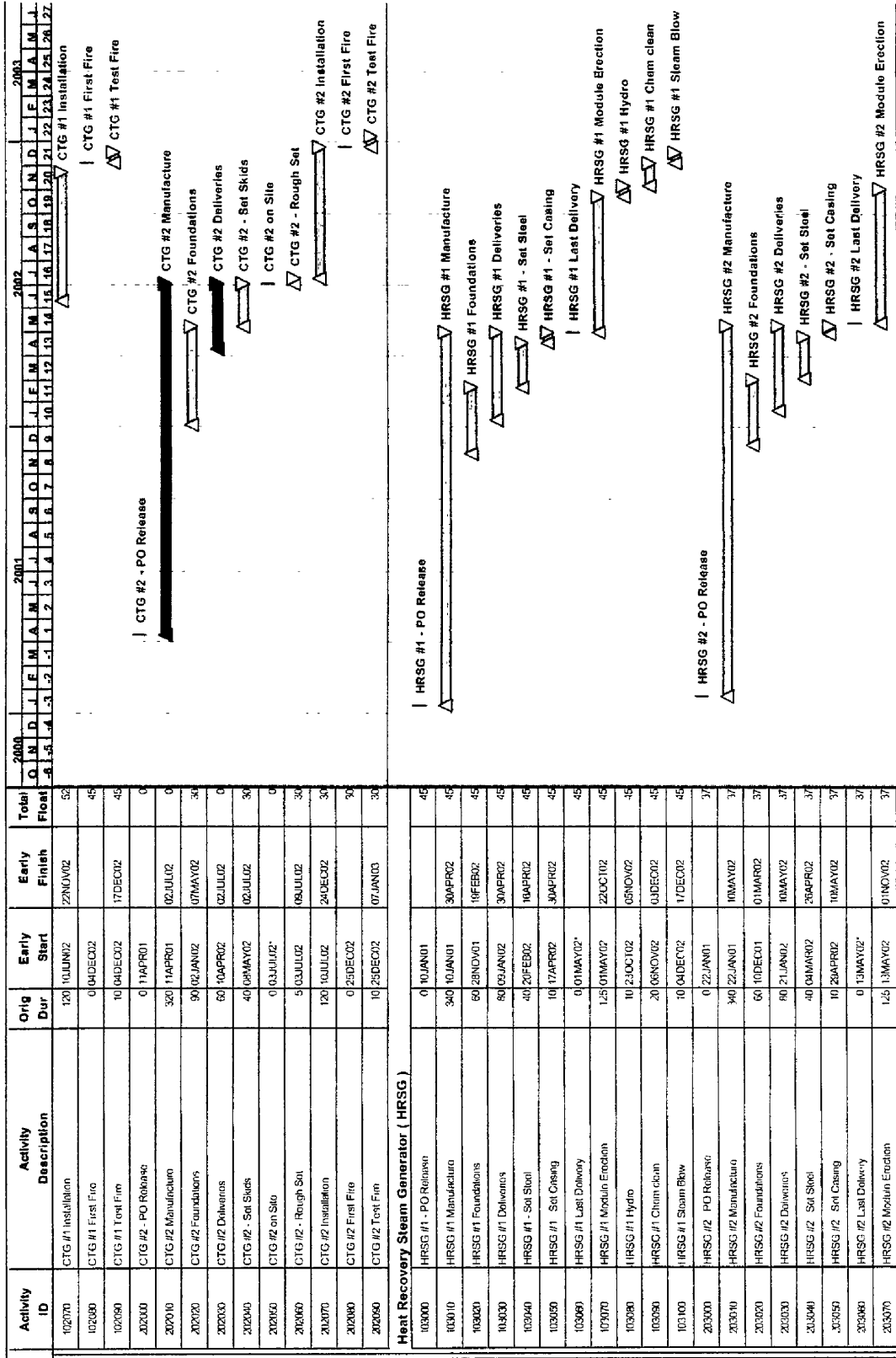
Start Date	01AUG98
Finish Date	27MAY03
Data Date	29MAY00
Run Date	28NOV00 09:48

Sheet 1 of 3

CALPINE
 Osprey Energy Center
 Preliminary Schedule
 Revision 1

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FIGURE II-16 (REVISED)
 OSPREY ENERGY CENTER
 PRELIMINARY PROJECT SCHEDULE
 (continued)



Sheet 2 of 3

CALPINE
 Osprey Energy Center
 Preliminary Schedule
 Revision 1

Start Date	01AUG08
Finish Date	27MAY03
Data Date	29MAY00
Run Date	28NOV00 09:48

1028

Legend:
 Early Bar
 Progress Bar
 Critical Activity

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FIGURE II-16 (REVISED)
 OSPREY ENERGY CENTER
 PRELIMINARY PROJECT SCHEDULE
 (continued)

