

Florida Power

CORPORATION
Crystal River Unit 3
Docket No. 50-302

January 29, 1997
3F0197-10

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, D.C. 20555-0001

Subject: Resolution of Thermo-Lag Issues

References: A. FPC to NRC letter, 3F1295-05, dated December 21, 1995
B. FPC to NRC letter, 3F0996-19, dated September 27, 1996
C. FPC to NRC letter, 3F1296-05, dated December 16, 1996

Dear Sir:

In Reference A, Florida Power Corporation (FPC) described our proposed plan for resolution of Thermo-Lag fire barrier issues at Crystal River Unit 3 (CR-3). A key element of our Thermo-Lag resolution strategy is reducing the plant's reliance on fire barriers through revision of the post-fire safe shutdown analysis based, in part, on using offsite power sources for post-fire safe shutdown.

Our evaluation of fire-induced failure of circuits that could adversely impact the use of offsite power sources, identified a concern with current transformers (CTs) associated with the 4kV switchgear. Resolution of this issue will delay implementation of the analysis changes intended to reduce reliance on Thermo-Lag. As a result, this letter revises the date established in Reference B for implementation of the post-fire safe shutdown analysis changes.

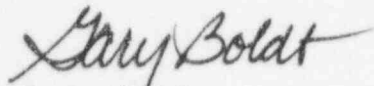
CRYSTAL RIVER ENERGY COMPLEX: 15760 W Power Line St • Crystal River, Florida 34428-6708 • (352) 795-6486
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In Reference C, Attachment B, FPC committed to resolve the CT issues prior to restart from our current outage. The analysis changes described in Reference A will be completed within 90 days after restart. This additional delay will not impact our completion date for full resolution of Thermo-Lag issues scheduled for December 29, 2000. The attached Thermo-Lag Resolution Implementation Plan flow chart, milestone chart, and project schedule are provided for information, and are being utilized to track CR-3 Thermo-Lag resolution activities and scheduled commitments.

Please contact W. L. Rossfeld at (352) 563-4374 if you have any questions concerning this submittal.

Sincerely,



G. L. Boldt
Vice President
Nuclear Production

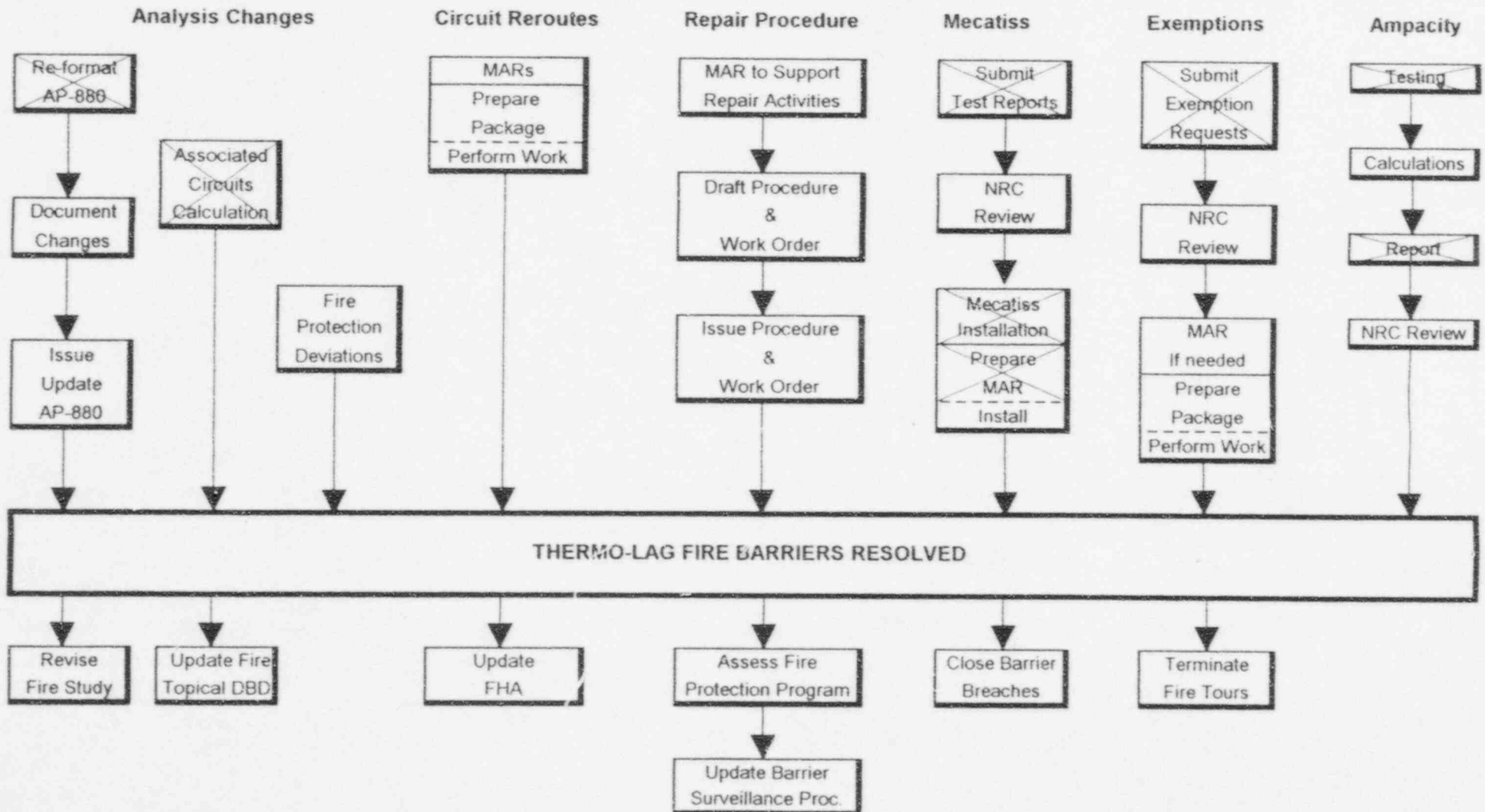
Attachments

xc: Regional Administrator, Region II
Senior Resident Inspector
NRR Project Manager

Attachment 1

FLORIDA POWER CORPORATION THERMO-LAG RESOLUTION IMPLEMENTATION PLAN

RESOLUTION EVALUATION & SELECTION (SAFETY BENEFIT/COST EVALUATION)



Attachment 2

**THERMO-LAG RESOLUTION IMPLEMENTATION MILESTONES
AS OF JANUARY 17, 1997**

Task	Task Description	Responsible Team	Due Date	Status
1.	Reformat AP-880 to reflect available equipment per current Fire Study (39 fire areas/zones)			Complete
2.	Prepare packages for analysis changes (6 document and drawing packages)	B. Spear D. Rhoads N. Fioravante	Restart + 60 days 07/31/97	In progress 75% complete
3.	Issue AP-880 with analysis changes incorporated (38 fire areas/zones)	G. Becker N. Fioravante D. Rhoads	Restart + 60 days 08/29/97	In progress 50% complete
4a.	Complete Multiple High Impedance Fault Calculations			Complete
4b.	Review Fire-Induced Spurious Operation Evaluation			Complete
5.	Prepare Fire Protection Engineering Evaluations for openings in fire area boundaries (7 evaluations)	L. Dymek	Restart + 60 days 06/30/97	In progress 80% complete
6a.	Part 1 - Prepare conceptual designs for circuit reroutes (13 designs)			Complete
6a.	Part 2 - Prepare MARs for cable reroutes (13 MARs)	C. Kish B. Spear	12/29/00	In progress
6b.	Prepare work packages for cable reroutes (13 MARs)	C. Kish B. Spear	12/29/00	
6c.	Perform work for cable reroutes (13 MARs)	C. Kish B. Spear	12/29/00	

Attachment 2

**THERMO-LAG RESOLUTION IMPLEMENTATION MILESTONES
AS OF JANUARY 17, 1997**

Task	Task Description	Responsible Team	Due Date	Status
6d.	Breaker and fuse changes to support high impedance fault calculation	C. Kish B. Spear	12/29/00	In progress
7.	Prepare, schedule and perform MAR to support cold shutdown repair (1 MAR)	C. Kish B. Spear	12/29/00	
8.	Draft cold shutdown repair procedures and maintenance work orders (4 procedures)	C. Kish B. Spear G. Becker	9/28/00	
9.	Issue cold shutdown repair procedures and maintenance work orders (4 procedures)	C. Kish B. Spear G. Becker	12/29/00	
10a.	Complete testing program for Mecatiss and submit test packages to the NRC			Complete
10b.	Complete additional fire tests for Mecatiss and submit test packages to the NRC			Complete
11.	Support NRC review of test packages	W. Rossfeld L. Dymek S. Powell		In progress
12a.	Prepare MAR for installation of Mecatiss (1 MAR)			Complete
12b.	Prepare work packages for installation of Mecatiss (1 MAR)			Complete
12c.	Install Mecatiss	W. Rossfeld E. Bosworth		Complete MAR close-out in progress

Attachment 2

**THERMO-LAG RESOLUTION IMPLEMENTATION MILESTONES
AS OF JANUARY 17, 1997**

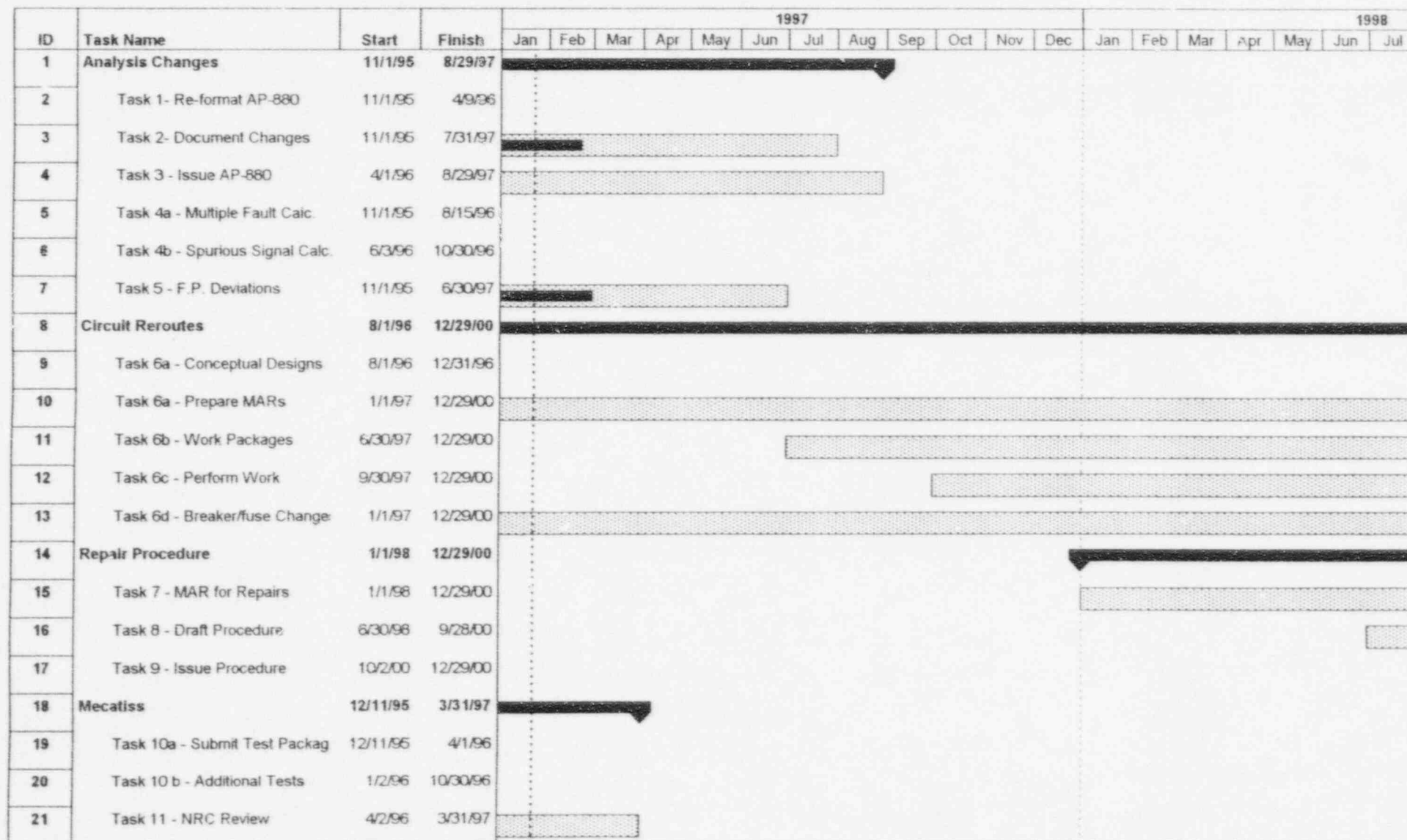
Task	Task Description	Responsible Team	Due Date	Status
13.	Submit exemption request to the NRC (4 new exemptions, revise 2 existing exemptions and delete 2 existing exemptions) [The new exemptions have been submitted. The remaining effort is related to revising and deleting existing exemptions.]	W. Rossfeld L. Dymek S. Powell N. Fioravante	09/30/97	In progress 65% complete
14.	Support NRC review of exemption request	W. Rossfeld L. Dymek S. Powell	03/31/97	In progress
15.	Prepare MARs if needed to resolve NRC concerns with exemption request	W. Rossfeld L. Dymek	12/29/00	Waiting NRC Review
15a.	Resolve Thermo-Lag in the Reactor Building			Complete
16a.	Complete ampacity testing program			Complete
16b.	Finalize ampacity calculations for Thermo-Lag and Mecatiss configurations	D. Kelly B. Spear	06/30/97	In progress 5% complete
16c.	Submit preliminary report for ampacity			Complete
16d.	Support NRC review of ampacity report	B. Spear S. Powell	03/31/97	In progress
17.	Revise Fire Study Report to reflect resolution of Thermo-Lag	C. Kish B. Spear N. Fioravante	09/30/97	
18.	Revise Appendix R DBD to reflect resolution of Thermo-Lag	C. Kish B. Spear N. Fioravante	09/30/97	

Attachment 2

**THERMO-LAG RESOLUTION IMPLEMENTATION MILESTONES
AS OF JANUARY 17, 1997**

Task	Task Description	Responsible Team	Due Date	Status
19.	Revise Fire Hazards Analysis to reflect resolution of Thermo-Lag	L. Dymek	12/31/97	
20.	Assess Fire Protection Program with respect to commitment made during the exemption process and to reflect the resolution of Thermo-Lag	L. Dymek	12/31/97	
21.	Update Fire Barrier surveillance procedure	H. Howard	12/29/00	
22.	Close Thermo-Lag breaches	J. Russell	12/29/00	
23.	Terminate Thermo-Lag Fire Tours	W. Rossfeld	12/29/00	

THERMO-LAG RESOLUTION IMPLEMENTATION PLAN



W. L. Rossfeld
Florida Power Corporation
Date: 1/23/97

Task



Summary



Rolled Up Progress



Progress



Rolled Up Task



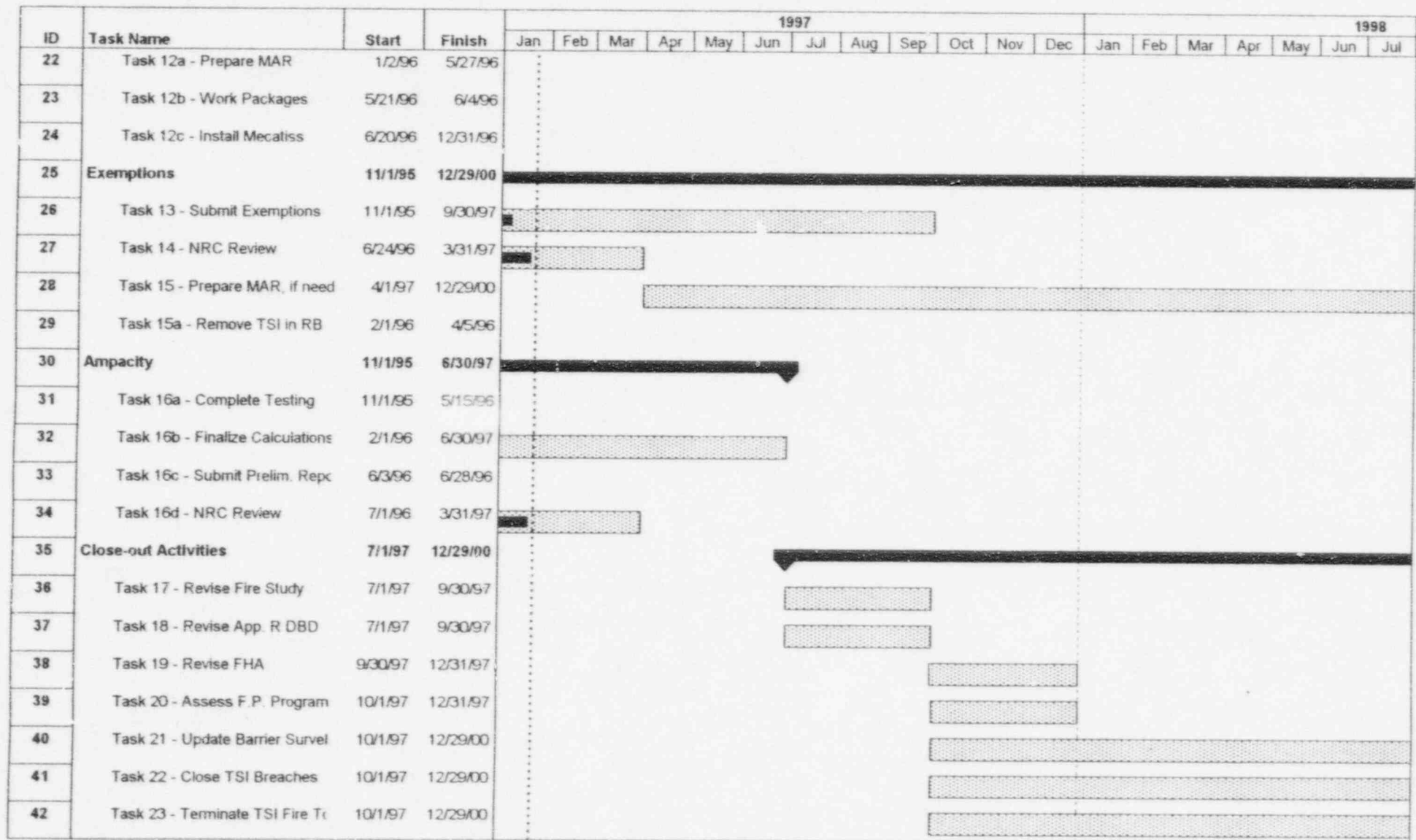
Milestone



Rolled Up Milestone



THERMO-LAG RESOLUTION IMPLEMENTATION PLAN



W. L. Rossfeld
Florida Power Corporation
Date: 1/23/97

