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JEWED FPSC

Charles A. Guyton 850,222,3423

July 16, 2002

-VIA HAND DELIVERY-

Ms. Blanca S. Bayó Division of the Commission Clerk and Administrative Services Florida Public Service Commission 2540 Shumard Oak Blvd. Tallahassee, FL 32399-0850

> Docket Nos. 020262-EI and 020263-EI Re:

Dear Ms. Bayó:

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MMS

On March 22, 2002, Florida Power & Light Company ("FPL") filed a Petition for Determination of Need for an Electrical Power Plant - Martin Unit 8 and a Petition for Determination of Need for an Electrical Power Plant - Manatee Unit 3. FPL's two petitions were assigned Docket Nos. 020262-EI and 020263-EI, respectively.

On April 22, 2002, FPL moved to hold both proceedings in abeyance to allow FPL to undertake a Supplemental Request for Proposals (Supplemental RFP). On April 29, 2002, FPL filed an emergency motion for waiver of Rule 25-22.080(2), F.A.C., to allow deferral of the hearing schedule if, as a result of the Supplemental RFP, Martin Unit 8 and Manatee Unit 3 were determined to be the most cost-effective alternatives to meet FPL's 2005 and 2006 need. By Order No. PSC-02-0571-PCO-EI, Commissioner Deason, acting as prehearing officer, substantially granted FPL's emergency motion to hold both proceedings in abeyance, and by Order No. PSC-02-0703-PCO-EI, the Commission granted FPL's emergency waiver of Rule 25-22.080(2).

CMP + org lest FPL has completed its Supplemental RFP. FPL's analysis shows that Martin Unit 8 and COM Manatee Unit 3 are the most cost-effective options to meet FPL's 2005 and 2006 need for capacity. Consequently, FPL is now prepared, consistent with Order Nos. PSC-02-0571-PCO-EI

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and PSC-02-0703-PCO-EI, for the Commission to proceed with its evaluation of the need for those two units in Docket Nos. 020262-EI and 020263-EI. The documents enclosed herewith, as described below, provide the information required for that evaluation.

Enclosed for filing on behalf of FPL in Docket Nos. 020262-EI and 020263-EI are the original and fifteen copies of:

- (1) FPL's Motion for Leave to Amend Petitions for Determination of Need
- (2) FPL's Amended Petition for Determination of Need for an Electrical Power Plant-Martin Unit 8
- (3) FPL's Amended Petition for Determination of Need for an Electrical Power Plant-Manatee Unit 3

Because the same analysis supported FPL's assessment of its 2005 and 2006 capacity needs and its determination that Martin Unit 8 and Manatee Unit 3 were the most cost-effective alternatives to meet the needs, FPL previously filed a motion to consolidate both dockets. Consistent with its motion to consolidate, FPL filed along with its original Need Determination petitions a single Need Study for Electrical Power Plant and a single set of Need Study Appendices, as well as a common set of testimony for both dockets. FPL continues to seek consolidation of these dockets for hearing.

In support of its amended Petitions for Determination of Need for Martin Unit 8 and Manatee Unit 3, FPL is filing the original and 15 copies of the following documents:

- (1) Need Study For Electrical Power Plant, 2005-2006
- (2) Need Study Appendices A D
- (3) Need Study Appendices E J
- (4) Need Study Appendices K O
- (5) Direct Testimony of Dr. William E. Avera
- (6) Direct Testimony of C. Dennis Brandt
- (7) Direct Testimony of Moray P. Dewhurst
- (8) Direct Testimony of Leonardo E. Green
- (9) Direct Testimony of Rene Silva
- (10) Direct Testimony of Dr. Steven R. Sim

- (11) Direct Testimony of Donald R. Stillwagon
- (12) Direct Testimony of Alan S. Taylor
- (13) Direct Testimony of William L. Yeager
- (14) Direct Testimony of Gerard Yupp

These documents reflect the results of FPL's Supplemental RFP and supercede the Need Study and Appendices and its Direct Testimony filed on March 22, 2002, in support of its initial Petitions for Determination of Need. Therefore, FPL hereby withdraws the March 22 Need Study and Appendices and the March 22 Direct Testimony.

Copies of the enclosed documents, are being provided to counsel for all parties of record. Under separate cover letter, FPL is filing its confidential appendices to the Need Study and a Request for Confidential Classification for the confidential appendices.

With the interruption of these proceedings for the Supplemental RFP, it is important that FPL's need determination proceedings be heard expeditiously. Prior to the Commission's granting of FPL's Emergency Motion To Hold The Proceedings In Abeyance, the parties had agreed to a schedule that would result in a hearing on October 2-4, 2002, a Commission decision on November 19, 2002, and a final order no later than December 4, 2002. FPL needs to preserve this schedule in order to meet its scheduled in-service date of June 2005 for both Martin Unit 8 and Manatee Unit 3. To facilitate this schedule, FPL has: (a) included more detailed data in the enclosed Need Study and Appendices than is required by Commission rule; (b) filed its direct testimony along with its amended petitions; (c) worked out with the intervenors free access to the primary analytical tools used in conducting the economic analysis of the Supplemental RFP; (d) agreed to a Confidentiality Agreement and process to allow intervenor access to most confidential data; and (e) agreed to expedited discovery. FPL will continue to work with the Commission and the parties to facilitate the Commission's prompt consideration of these proceedings.

Any delay in these proceedings would place at risk the in-service dates of Martin Unit 8 and Manatee Unit 3. In the event of delay, FPL would not achieve its 20 percent reserve margin criteria (or even a 15 percent reserve margin) in the summer of 2005. Without purchases of capacity to replace these facilities, an option which may not be available for the full capacity of these units, the reliability of FPL's system could be significantly adversely impacted to the detriment of FPL's customers. In the event of a delay, if FPL were to attempt to purchase capacity and energy to replace these units, FPL likely would pay higher costs than the costs it would incur if these units had met their in-service dates. Thus, delay also would adversely impact the costs paid by FPL's customers.

Because a delay would cause adverse impacts upon FPL's customers, FPL respectfully requests that these proceedings be processed according to the previously agreed schedule and that an Order on Procedure be issued. Such an order should place reasonable limits on discovery, encourage intervenors to coordinate discovery as they have previously agreed to do,

expedite discovery as previously agreed and set forth the agreed-to schedule, thereby facilitating the administration of these proceedings.

Respectfully submitted,

R. Wade Litchfield (Charles A. Guyton

Attorneys for Florida Power & Light Company

CAG/gc Enclosures

cc: Counsel for Parties of Record

MlA2001 122447v1

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

DOCKET NOS. 020262-EI, 020263-EI FLORIDA POWER & LIGHT COMPANY

JULY 16, 2002

IN RE: PETITION FOR DETERMINATION OF NEED FOR PROPOSED ELECTRICAL POWER PLANT IN MARTIN COUNTY OF FLORIDA POWER & LIGHT COMPANY

IN RE: PETITION FOR DETERMINATION OF NEED FOR PROPOSED ELECTRICAL POWER PLANT IN MANATEE COUNTY OF FLORIDA POWER & LIGHT COMPANY

DIRECT TESTIMONY & EXHIBITS OF:

DONALD R. STILLWAGON

DOCUMENT NUMBER - CATE

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1		BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION
2		FLORIDA POWER & LIGHT COMPANY
3		DIRECT TESTIMONY OF DONALD R. STILLWAGON
4		DOCKET NOS. 020262-EI, 020263-EI
5		JULY 16, 2002
6		
7	Q.	Please state your name and address.
8	A.	My name is Donald R. Stillwagon, and my address is 6425 8th Avenue North,
9		St. Petersburg, FL 33710.
10		
11	Q.	Please state your occupation.
12	A.	I am an independent consultant on matters relating to transmission systems. I
13		have been engaged to work for Florida Power & Light Company (FPL) on
14		transmission integration requirements as they relate to FPL's Supplemental
15		Request For Proposals (Supplemental RFP).
16		
17	Q.	Please state your experience.
18	A.	I graduated from the University of Florida with a Bachelor of Science Degree
19		in Electrical Engineering in 1968. I subsequently earned a Master's degree in
20		Business Administration from the Florida Institute of Technology in 1978. I
21		am a registered Professional Engineer in the State of Florida, and a member of
22		the Institute of Electrical and Electronic Engineers, Inc. (IEEE).
23		

My work experience includes 33 years at Florida Power Corporation (FPC) from which I retired January 1, 2002. While at FPC, I spent the first 9 years of my career in Transmission Line Design where I was responsible for project work involving the routing and engineering design of transmission lines, preparation of cost estimates, work orders, and project cost budgeting. I was responsible for planning of the FPC Bulk Transmission System (230 kV and above) for the period of 1978 through 1994. In this position, I was responsible for loadflow and transient stability studies, development of solution alternatives, evaluating the costs and benefits of alternatives and the recommendation of an expansion plan and budget requirements to FPC management.

In December 1994 I became the Manager of Transmission and Distribution (T&D) Planning for FPC, a position I held for five years. As Manager of T&D Planning, I led the team that was responsible for the planning and capital budgeting for the entire FPC transmission system, including distribution substations. As Manager, I was also responsible for coordinating the planning of the FPC transmission system with other utilities and within the Florida Reliability Coordinating Council (FRCC). The final two years of my career at FPC were spent on a special assignment to the FPC Regional Transmission Organization Team that led the FPC involvement in the GridFlorida and other Regional Transmission Organization efforts at the Florida level and at the Federal Energy Regulatory Commission (FERC).

1		I have testified before the Florida Public Service Commission (Commission)
2		in several Transmission Need Hearings, and represented the FRCC before the
3		Commission in several proceedings in various capacities. I served as Chair of
4		the FRCC Available Transfer Capability Working Group (ATCWG) from its
5		inception in 1995 through late 2001.
6		
7	Q.	What is the purpose of your testimony?
8	A.	The purpose of my testimony is to describe the overall evaluation process and
9		the results of transmission integration studies for the various capacity plans
10		from the FPL Supplemental RFP process as requested by the FPL Resource
11		Assessment and Planning (RAP) staff. I will additionally review the detailed
12		results of the integration studies as they pertain specifically to the All FPL
13		plan.
14		
15	Q.	Are you sponsoring an exhibit in this case?
16	Α.	Yes. It consists of the following documents:
17		Document DRS-1, Integration Direct Costs Summary
18		Document DRS-2, Integration Cash Flow - Supplemental RFP
19		Document DRS-3, Integration Facilities and Cost for All FPL plan.
. 20		
21	Q.	Are you sponsoring any part of the Need Study for this proceeding?
22	A.	Yes, I sponsor the portions of Section III addressing transmission integration
23		and co-sponsor Appendix M of the Need Study.

I.	Integration	Study	Process.
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- Q. Please describe FPL's transmission integration evaluation process and you involvement in it.
 - **A.** The evaluation process consisted of three steps.

The first step was to perform loadflow screening studies to identify new facilities and facility upgrades that would be needed to integrate the capacity resources in each plan into the transmission system as a network resource for FPL. In consultation with FPL transmission personnel, I developed the methodology that was used to perform these loadflow screening studies. I then led and directed FPL transmission planning engineers, who performed the loadflow screening studies. Throughout this first step, I met with FPL transmission planning engineers, reviewed and approved the results of their loadflow screening studies, and prepared a scenario-by-scenario list of new facilities and facility upgrades required to integrate the capacity resources in each plan into the transmission system as a network resource for FPL.

Once a list of new facilities and facility upgrades required to integrate was identified, I directed the second step of the evaluation process, which consisted of developing cost estimates for the new and upgraded transmission facilities. The cost estimates were prepared by FPL substation and transmission engineers under my direction. During this step I held a meeting

and participated in the discussion at which the scenario study results and cost estimates were discussed and reviewed for reasonableness and compared for consistency.

The final step in the process involved compiling (i) a total transmission integration cost for each plan and (ii) an estimated monthly cash flow of the costs for the transmission projects. Again, this work was performed by FPL transmission personnel under my direction. After I reviewed the transmission integration cost information and satisfied myself as to its accuracy and completeness, I transmitted the information to the FPL RAP business unit for inclusion in the Supplemental RFP evaluation. Document DRS-1 contains a listing of the 28 plans and their associated transmission integration costs. Document DRS-2 contains two separate cash flows for each plan, the first for the facilities being placed into service in 2005, and the second for the facilities being placed into service in 2006.

A.

Q. Please describe the loadflow analyses performed.

For each of the 28 plans, loadflow studies were performed to assess necessary transmission system upgrades. These studies were considered screening type studies since they were not as comprehensive as studies that are normally performed for a request for specific transmission service. However, the screening type studies are sufficient to provide a reasonable estimate of the facilities that may become overloaded as a result of the plan options and the

incremental transmission facilities that may be necessary to mitigate such overload(s).

Each of the 2005 and 2007 loadflow cases for the 28 plans was subjected to a contingency screening of all transmission elements, and the FPL system was monitored for violations of North American Electric Reliability Council (NERC), FRCC and FPL standards. In accordance with standard study procedures for interconnection and integration, the analysis did not include monitoring the systems of any other transmission providers. Any violations found were resolved by the least expensive option, whether by acceptable remedial action, facility upgrades, or by new facilities. All proposed solutions were inserted into the appropriate loadflow case and tested with another full contingency screen in order to verify the completeness of the solution.

The loadflow cases used for the studies were based upon the FRCC 2002 loadflow cases, which are available and updated on an annual basis by the FRCC.

Q. Please describe the reasons for using the FRCC 2002 loadflow cases.

A. The FRCC 2002 loadflow cases have a significant advantage over the 2001 loadflow cases, because they contain many new planned facilities required as a result of newly confirmed transmission service requests and retail load

requirements. Though not officially deemed final by the FRCC until June 18, 2002, by the time the 2002 loadflow cases were used for this analysis they were undergoing final review and had already been reviewed by the FRCC Transmission Working Group several times as well as by all transmission providers in the FRCC through a formal review process. Finally, the 2002 FRCC loadflow cases contain a full year's worth of transmission service additions, all the facilities planned by all transmission providers during the previous year, and the data from another full year of load growth information. Using the 2002 FRCC loadflow cases assures that the results for this analysis are based on the most current loadflow cases available.

Q. Why did FPL's loadflow analysis use 2005 and 2007 study years?

A. Summer 2005 was used because that is the first year that the candidate 2005 capacity resources would be available, and summer 2007 was chosen to study the system one year after all of the proposed capacity resources for each of the plans was in service to assure the transmission integration was adequate.

A.

Q. Do you have a general observation regarding the results of the analysis?

Yes. Generally, the results of the loadflow analysis indicated that a limited amount of capability exists to transfer power from the west coast to the east coast load centers of Florida. Therefore, as larger amounts of additional capacity resources are concentrated in the west coast of Florida in proportion to the east coast of Florida, incremental transmission facilities become

necessary. As this situation is exacerbated, the incremental transmission facilities required to accommodate the transfer of power from the west coast to east coast load centers become more extensive.

A.

Q. Once the need for incremental transmission facilities was determined for each plan, how were the costs of such incremental transmission facilities estimated?

Based on the need for incremental transmission facilities identified in each plan, a budget estimate for the facilities necessary for integration was developed in a consistent manner for each plan. These were what I consider budget grade estimates, which were based on sound engineering judgment, readily available data and existing estimates, and records of facility limitations and equipment ratings. The estimates did not involve any field inspections, or the type of detailed analysis that would be performed in response to a specific request for interconnection or transmission service, but they are adequate for their intended purpose. That is, they provide all the necessary information to make effective comparisons of the relative transmission integration costs associated with the plans. The estimated costs of the facilities for each plan were summed, and the total estimated plan integration cost determined. The estimates provided were in 2002 dollars.

II. Integration Study Overall Results

- Q. Please summarize the cost estimates associated with integration for the 28 capacity plans.
- A. Generally, the 28 capacity plans can be clustered into three broad groups. The least costly group of plans, which ranged in direct construction cost from \$4.4 million to \$25.6 million, consisted of plans designated as All Outside, All FPL, 2(b), 3, 3(a), 3(b), 5(a), 5(b), 7(a), 7(b), 8(a), 8(b), and 10. This first set can be described by several distinctive characteristics. First, in these plans the majority of the capacity resources that are placed into service in 2005 are located in the vicinity of the central east coast of Florida. Also, these plans either are somewhat more balanced in quantity of east coast versus west coast capacity resources or are predominantly on the east coast.

The second group of plans ranged from \$32.5 to \$57 million in direct construction cost, and consisted of plans designated as 1, 1(a), 1(c), 2, 2(a), 4, 4(a), 5, 6(a), 6(b), 6(c), 9(a) and 9(b). In this group of plans, the substantial majority of the capacity resources that are placed into service in 2005 are located in the vicinity of the west coast of Florida. It appears that placing an emphasis on capacity resources located in the west coast results in higher amounts of west-to-east power transfers, and in larger overloads in the west-to-east transmission facilities. These facilities cover great distances, and thus the required upgrades tend to be more costly.

Finally, the last group of plans, designated as 1(b) and 4(b), ranged from \$90.2 to \$106.5 million in direct construction cost. These plans have all capacity resources located in the west coast vicinity, which results in high amounts of west-to-east power transfers, consequently significantly overloading the west coast to east coast transmission facilities. As I discussed in the previous paragraph, these facilities are very long; thus, the upgrades are relatively expensive. Compounding this situation are the large overloads identified with this last group of plans that require a rebuild of these west-to-east transmission facilities.

III. All FPL plan

Q. Please describe the transmission system interconnection requirements for the proposed Martin Unit 8 and Manatee Unit 3 projects, referred to as the All FPL plan.

A.

Document DRS-3 identifies the integration facilities for the All FPL plan and tabulates the total direct transmission integration cost for the plan. Two new transmission lines are required on the east coast, and five transmission lines must be upgraded to higher ampacity, four on the west coast, and one on the east coast. The new transmission lines are (a) between the Martin system substation and the Indiantown substation, and (b) between the Indiantown substation and the Bridge substation. The new transmission facilities

constitute 93%, \$20.6 million of \$22.1 million, of the All FPL transmission integration cost. These two new transmission lines will become part of the overall transmission system and thus needed to serve the FPL load. The system upgrades of existing circuits are responsible for the \$1.5 million balance of the All FPL transmission integration cost.

Just as with the other plans, the transmission facilities are required for the total plan and cannot be separated for each resource. The construction of the new transmission lines and the upgrades are necessitated due to thermal overloading of existing transmission lines for single contingency outages.

A.

Q. Would you please explain why the construction of two new transmission lines is necessary?

With respect to the two new transmission lines that must be constructed, the Martin-Indiantown #2 230 kV transmission line is necessary because several contingency outages result in overloads on the Warfield-Indiantown, Florida Steel-Indiantown and Florida Steel-Martin 230 kV lines. Since upgrades of these lines are not an effective alternative, a third 230 kV transmission line from Martin-Indiantown is necessary. Regarding the necessity for the second 230 kV transmission line from Indiantown-Bridge, this line is required due to the resulting thermal overloading of the existing Indiantown-Bridge 230 kV line for the contingency outages of the Indiantown-Pratt&Whitney, Pratt&Whitney-Ranch, Midway-Jaguar and Turnpike-Jaguar 230 kV lines.

1		The screening study determined that the thermal overloads experienced on the
2		existing Indiantown-Bridge 230 kV line exceeds any remaining upgrade
3		capability.
4		
5	Q.	Please address the necessity for the upgrades of existing transmission
6		lines.
7	A.	With respect to the upgrades identified as necessary in the screening study, the
8		upgrade of the Ranch-Homeland 230 kV line is required due to resulting
9		overloads on this line for the contingency outage of either the Corbett-
10		Conservation 500 kV or Conservation 500/230 kV autotransformer. The
11		screening study indicates that the Ranch-Homeland 230 kV line can be
12		upgraded such that the resulting overload is mitigated.
13		
14		Similarly, the Charlotte-Ft. Myers # 2 230 kV line was found to experience
15		overloads for the contingency outage of the Charlotte-Calusa, the other
16		Charlotte-Ft. Myers or the Charlotte-North Cape 230 kV transmission lines that
17		could be mitigated by an upgrade of the line. Also, the Charlotte-Calusa 230
18		kV transmission line sustained overloads that could be mitigated by an upgrade
19		of the line for the same contingency outages as discussed for the Charlotte-Ft.
20		Myers#2 230 kV line.
21		
22		Regarding the necessity to upgrade the Manatee-Johnson and Manatee-
23		Ringling #3 230 kV lines, the contingency outage of either of these lines

results in the other being overloaded. Additionally, the contingency outage of the Manatee-Parish or Parish-Ringling 230 kV transmission lines result in overloads of a lesser magnitude on one or both of the Manatee-Johnson and Manatee-Ringling 230 kV lines.

A.

Q. Please summarize your testimony.

My testimony provides a description of the Transmission Integration Study process that led to the development of the FPL transmission facility requirements and costs for integrating each of the 28 plans of the FPL Supplemental RFP into network resources for the FPL network load. The range of costs varies from a low of \$4.4 million for the All Outside plan which contained candidate resources mainly in the south central and east side of Florida, to a high of \$106 million for Plan 4(b) which contained candidate resources primarily on the west coast of Florida.

Finally, I provide more detail about the transmission integration requirements for the plan that was selected as a result of the Supplemental RFP process. This specific plan requires two new transmission lines to be constructed on the east coast, and upgrades of five existing lines, one on the east coast, and four on the west coast. The great majority of the total direct transmission integration cost of this plan is for the two new transmission lines.

Q. Does this conclude your testimony?

24 A. Yes.

Integration Direct Costs Summary

Plan Designation	2005 Additions	2006 Additions	Integration Direct Cost (2002 Dollars in 000s)
1a	Manatee, P5	P42	36,500
1b	Manatee, P5	P44	90,150
1c	Manatee, P5	P3, P42	36,500
2a	Martin, P3, P26	P42	32,450
2b	Martin, P3, P26	P44	20,750
3a	Martin, P3, P6, P26	P42	25,150
3b	Martin, P3, P6, P26	P44	20,800
4a	Manatee, P3	P42	51,350
4b	Manatee, P3	P44	106,500
5a	Martin, P6, P20	P42	25,550
5b	Martin, P6, P20	P44	20,750
6a	Manatee, P24	P42	51,300
6b	Manatee, P24	P44	50,400
6c	Manatee, P24	P3,P44	53,200
7a	Martin, P32	P42	25,550
7b	Martin, P32	P44	20,700
8a	Martin, P6, P32	P42	25,500
8b	Martin, P6, P32	P44	20,700
9a	Manatee, P31	P42	36,450
9b	Manatee, P31	P44	52,400
10	Martin, P20	P42	25,550
1	Manatee, P26	Martin	56,950
2	Manatee, P5	Martin	42,350
3	Martin, P32	Manatee	22,100
4	Martin, P3, P26	Manatee	36,800
5	Manatee, P31	Martin	42,100
All FPL	Manatee, Martin		22,100
All Outside	P5, P20, P32	P42	4,400

Case/Year				Integration	n Cash Flo	ow - Suppi	ementai R	<u>FP</u>					-	2005-06
ALL FPL-2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	Total
2002									\$100	\$100	\$150	\$150	\$500	
2003	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$595	\$9,945	
2004	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$595	\$9,945	
2005	\$555	\$400	\$400	\$355	4000	4555	4000	4000	4	4	*	*	\$1,710	
	φυυυ	φ400	ψ400	ΨΟΟΟ									\$0	
2006												Total =	\$22,100	\$22,1
LL OUTSIDE-2	006													
2002													\$0	
2003													\$0	
2004				\$50	\$50	\$100	\$100	\$150	\$150	\$200	\$200	\$200	\$1,200	
2005	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$250	\$250	\$250	\$2,550	
2006	\$250	\$200	\$200	•	•		,						\$650	
2000	ΨΣΟΟ	\$200	4200									Total =	\$4,400	\$4,4
ort 1A -2005	Jan	Feb	Mar	Арг	May	Jun	Jul	Aug	Sep	Oct	Nov	<u>Dec</u>	Total	
2002	-								\$100	\$100	\$150	\$150	\$500	
2003	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$9,696	
2004	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$10,296	
2005	\$360	\$360	\$338										\$1,058	
2006	•												<u>\$0</u>	
												Total =	\$21,550	
Port 1A -2006	<u>Jan</u>	Feb	Mar	Apr	May	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	Sep	Oct	Nov	Dec	Total \$0	
2002							****		****	0400	# 000	# 000		
2003	\$100	\$100	\$190	\$190	\$190	\$190	\$190	\$190	\$190	\$190	\$280	\$280	\$2,280	
2004	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	
2005	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	
2006	\$250	\$250	\$170										<u>\$670</u>	
												Total =	\$14,950	\$36,5
Port 1B-2005	Jan	Feb	Mar	Apr	May	<u>Jun</u>	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec	Total	
2002	<u> </u>	1.22							\$100	\$100	\$150	\$150	\$500	•
2003	\$2,265	\$2,265	\$2,265	\$2,265	\$2,265	\$2,265	\$2,265	\$2,265	\$2,265	\$2,265	\$2,265	\$2,265	\$27,180	i
2004	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$2,600	\$31,200	l
2004	\$520	\$500	\$500	Ψ2,000	Ψ2.,000	Ψ2,000	Ψ2,000	Ψ2,000	Ψ2,000	Ψ2,000	φω,σσσ	ΨΕ,000	\$1,520	l
	\$520	\$300	\$300										\$0	1
2006												Total =	\$60,400	
Port 1B-2006	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec	Total	
2002							_	_					\$0	
2003	\$100	\$100	\$150	\$150	\$495	\$495	\$495	\$495	\$495	\$495	\$495	\$495	\$4,460	1
2004	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$11,880	
2005	\$9 90	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$990	\$11,880	
2006	\$530	\$500	\$500									_	\$1,530	
												Total =	\$29,750	\$90,1
ort 1C -2005	<u>Jan</u>	Feb	Mar	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	Aug	Sep 2400	Oct	Nov 0450	Dec	Total	
2002									\$100	\$100	\$150	\$150	\$500	
2003	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$9,696]
2004	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$10,296	l
2005	\$360	\$360	\$338										\$1,058	1
2006												Total =	<u>\$0</u> \$21,550	
		, ·							•	0	A 1-			
Port 1C -2006 2002	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	Apr	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Total</u> \$0	
2003	\$100	\$100	\$190	\$190	\$190	\$190	\$190	\$190	\$190	\$190	\$280	\$280	\$2,280	
2000	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	
2004	φουσ				\$500	\$500 \$500	\$500 \$500	\$500	\$500	\$500	\$500	\$500	\$6,000	1
2004	PERO	¢ EOO												
2005	\$500	\$500	\$500 \$170	\$500	φουσ	φουυ	φ300	φουσ	Ψυσο	Ψ300	φυσσ	ΨΟΟΟ		ļ
	\$500 \$250	\$500 \$250	\$500 \$170	\$500	φουσ	\$500	φουσ	φυσο	ψ300	ψ300	φυσο		\$670 \$14,950	\$36,

Case/Year				Integration	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>	ionionian i	·····						2005-06
Port 2A-2005	Jan	Feb	Mar	<u>Apr</u>	May	<u>Jun</u>	Jul	Aug	Sep	Oct	Nov	Dec	Total	
2002									\$100	\$100	\$150	\$150	\$500	
2003	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$7 75	\$775	\$775	\$775	\$775	\$9,300	
2004	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$9,840	
2005	\$500	\$300	\$210	4020	ΨΟΣΟ	ΨυΣυ	ΨΟΣΟ	ΨΟΣΟ	4020	ΨΟΣΟ	4020	Ψυμυ	\$1,010	
2006	Ψυσο	ψυσο	ΨΖΙΟ										\$0 \$0	
2000												Total ≈	\$20,650	
Port 2A-2006	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	Jun	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	Oct	Nov	Dec	Total	
2002	Jan	1.60	IVICI	Apr	May.	<u>our</u>	<u>uu</u>	Aug	Seb	200	1404	<u>D00</u>	\$0	l
2002								\$50	\$50	\$100	\$100	\$150	\$450	
2003	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$400	\$4,800	
	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	ł
2005 2006	\$400	\$100	\$50 \$50	ΨΟΟΟ	ψυσο	Ψυσο	ψυσο	Ψ500	Ψ300	ΨΟΟΟ	\$300	ψουσ	\$550	
2006	\$400	\$100	φυσ									Total ≃	\$11,800	\$32,450
												Total =	\$11,000	432,430
Port 2B-2005	<u>Jan</u>	Feb	Mar	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	Aug	Sep \$100	Oct	Nov	Dec	Total	
2002	שיייר	ゆつ フェ	¢775	€77 5	¢775	677 F	ゆフマニ	ው ጋማድ	\$100 \$775	\$100 \$775	\$150 \$776	\$150 \$776	\$500 \$0.300	
2003	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$9,300	
2004	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$9,840	
2005	\$500	\$300	\$210										\$1,010	ļ
2006												T-4-1	<u>\$0</u>	!
												Total =	\$20,650	
Port 2B-2006	<u>Jan</u>	Feb	<u>Mar</u>	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	Aug	<u>Sep</u>	<u>Oct</u>	Nov	Dec	Total	
2002													\$0	
2003													\$ 0	
2004							# 400						\$0	
2005							\$100						\$100	
2006												Tatal	<u>\$0</u>	600.750
												Total =	\$100	\$20,750
Port 3A-2005	<u>Jan</u>	Feb	Mar	Apr	May	Jun	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec	Total	
2002									\$100	\$100	\$150	\$150	\$500	
2003	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$9,300	
2004	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$9,840	i
2005	\$500	\$300	\$260										\$1,060	l
2006													<u>\$0</u>	
												Total =	\$20,700	
Port 3A-2006	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	Sep	Oct	Nov	Dec	<u>Total</u>	
2002														
2003													\$0	
2004				\$50	\$50	\$100	\$100	\$150	\$150	\$200	\$200	\$200	\$1,200	
2005	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$200	\$250	\$250	\$250	\$2,550	· '
2006	\$250	\$250	\$200										<u>\$700</u>	****
												Total =	\$4,450	\$25,150
Port 3B-2005	Jan	Feb	<u>Mar</u>	Apr	May	<u>Jun</u>	Jul	Aug	<u>Sep</u>	<u>Oct</u>	Nov	Dec	Total	
2002									\$100	\$100	\$150	\$150	\$500	l
2003	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$9,300]
2004	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$9,840	1
2005	\$500	\$300	\$260										\$1,060	l
2006												Total =	<u>\$0</u> \$20,700	
Port 3B-2006	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	Oct	<u>Nov</u>	<u>Dec</u>	<u>Total</u>	
2002													\$0	
2003													\$0	1
2004													\$0	
2005							\$100						\$100	[
2006												.	<u>\$0</u>	
-												Total =	\$100	\$20,800
														I '

Case/Year				Integration	II Oddii i i	он опрр	OTTIOTICAL I.	int.						2005-06
Port 4A-2005	<u>Jan</u>	Feb	Mar	<u>Apr</u>	May	Jun	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec	Total	
2002							_		\$100	\$100	\$150	\$150	\$500	
2003	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$16,320	
2004	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$18,120	
	\$660	\$500	\$300	ψ1,010	Ψ1,010	ψ1,010	Ψ1,010	Ψ1,010	Ψ1,010	Ψ1,010	ψ.,σ.σ	4.,0.0	\$1,460	
2005	2000	φουυ	φουσ										\$ <u>0</u>	
2006												Total =	\$36,400	
												IUIAI -	\$30,400	
Port 4A-2006	<u>Jan</u>	<u>Feb</u>	Mar	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	Nov	<u>Dec</u>	<u>Total</u>	
2002													\$0	
2003									\$100	\$100	\$150	\$150	\$500	
2004	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	
2005	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$7,200	
2006	\$500	\$500	\$250										\$1,250	
	•	•										Total =	\$14,950	\$51,350
Port 4B-2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
2002	yan	1.00	ITICAL	1.451	may.	2411	241		\$100	\$100	\$150	\$150	\$500	
2003	\$2,816	\$2,816	\$2,816	\$2,816	\$2,816	\$2,816	\$2,816	\$2,816	\$2,816	\$2,816	\$2,816	\$2,816	\$33,792	
2004	\$3,090	\$3,090	\$3,090	\$3,090	\$3,090	\$3,090	\$3,090	\$3,090	\$3,090	\$3,200	\$3,200	\$3,200	\$37,410	
2005	\$1,500	\$1,250	\$648	ψο,σσο	ψ0,000	ψυ,υυυ	ψ0,050	ψ0,000	40,000	Ψ0,200	ψ0,200	4 0,200	\$3,398	
2005	φ1,500	φ1,230	ΨΟΨΟ										\$0	
2000												Total =	\$75,100	
Port 4B-2006 2002	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	Nov	<u>Dec</u>	Total \$0	
2002	\$100	\$100	\$100	\$150	\$530	\$530	\$530	\$530	\$530	\$530	\$530	\$530	\$4,690	
		\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$12,600	
2004	\$1,050			\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$12,600	
2005	\$1,050 \$700	\$1,050	\$1,050 \$310	φ1,000	\$1,000	\$1,030	\$1,050	\$1,050	\$1,050	φ1,030	Ψ1,030	Ψ1,000	\$1,510	
2006	\$700	\$500	Φ310									Total =		\$106,500
Port 5A-2005	Jan	Feb	Mar	Apr	May	Jun	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec	Total	
2002	<u> </u>	<u>, 00</u>							\$100	\$100	\$150	\$150	\$500	
2003	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$77 5	\$775	\$775	\$775	\$9,300	
2004	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$9,840	1
2005	\$372	\$372	\$316										\$1,060	1
2006													<u>\$0</u>	1
												Total =	\$20,700	
Port 5A-2006	<u>Jan</u>	Feb	Mar	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec	<u>Total</u>	
2002	<u> </u>													
2003													\$0	ŀ
2004				\$50	\$50	\$100	\$100	\$150	\$150	\$200	\$200	\$200	\$1,200	
2005	\$200	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$2,950	i
2006	\$250	\$250	\$200										<u>\$700</u>	
												Total =	\$4,850	\$25,550
Port 5B-2005	Jan	Feb	Mar	<u>Apr</u>	May	Jun	<u>Jul</u>	Aug	Sep	<u>Oct</u>	Nov	Dec	Total	
2002									\$100	\$100	\$150	\$150	\$500	
2003	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$9,300	
2004	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$9,840	
2005	\$500	\$300	\$260										\$1,060	
2006													<u>\$0</u>	
												Total =	\$20,700	
		₽ab.	<u>Mar</u>	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	Aug	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	Dec	Total	
Port 5B-2006	<u>Jan</u>	<u>Feb</u>											\$0	I .
Port 5B-2006 2002	<u>Jan</u>	Len											Ψυ	1
	<u>Jan</u>	Len											\$0	
2002	<u>Jan</u>	reb												
2002 2003	<u>Jan</u>	reb	2222				\$50						\$0	
2002 2003 2004	<u>Jan</u>	ren					\$50					Total =	\$0 \$0	\$20,750

Case/Year				IIRegratio										2005-06
Port 6A-2005	Jan	Feb	Mar	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec	Total	
2002	_			_	-	_	_		\$100	\$100	\$150	\$150	\$500	
2003	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$16,320	
2004	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$18,120	
2005	\$560	\$500	\$300										\$1,360	
2006	,,,,,		,										<u>\$0</u>	
												Total =	\$36,300	
Port 6A-2006	Jan	<u>Feb</u>	Mar	Apr	May	<u>Jun</u>	<u>Jul</u>	Aug	<u>Sep</u>	Oct	Nov	Dec	Total	
2002	<u> </u>												\$0	
2003									\$100	\$100	\$150	\$150	\$500	
2004	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	
2005	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$600	\$7,200	
2006	\$500	\$500	\$300										\$1,300	
	****											Total =	\$15,000	\$51,300
Port 6B-2005	Jan	Feb	Mar	Apr	May	Jun	<u>Jui</u>	Aug	Sep	Oct	Nov	Dec	Total	
2002									\$100	\$100	\$150	\$150	\$500	
2003	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$16,320	1
2004	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$18,120	
2005	\$560	\$500	\$300										\$1,360	l
2006													<u>\$0</u>	1 '
												Total ≃	\$36,300	
Port 6B-2006	<u>Jan</u>	<u>Feb</u>	Mar	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	Aug	<u>Sep</u>	Oct	Nov	Dec	Total	1
2002													\$0	
2003									\$100	\$100	\$150	\$150	\$500	1
2004	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	
2005	\$500	\$500	\$550	\$550	\$550	\$550	\$550	\$550	\$550	\$550	\$550	\$550	\$6,500	
2006	\$400	\$400	\$300										\$1,100	
												Total =	\$14,100	\$50,400
Port 6C-2005	Jan	Feb	Mar	Apr	May	<u>Jun</u>	Jul	Aug	Sep	Oct	Nov	Dec	Total	
2002									\$100	\$100	\$150	\$150	\$500	1
2003	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$1,360	\$16,320	
2004	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$1,510	\$18,120	
2005	\$560	\$500	\$300										\$1,360	ľ
2006												Total =	<u>\$0</u> \$36,300	
Port 6C-2006	<u>Jan</u>	<u>Feb</u>	Mar	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	Aug	Sep	Oct	Nov	<u>Dec</u>	<u>Total</u> \$0	
2002									\$100	\$100	\$150	\$150	\$500	1
2003 2004	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	1
2005	\$750	\$750	\$750	\$750	\$750	\$750	\$750	\$ 750	\$750	\$750	\$750	\$750	\$9,000	
2005	\$500	\$500	\$400	ψίου	Ψ/30	φ/σο	φισσ	Ψίου	4.00	4.00	4.55	4.00	\$1,400	1
2000	Ψ500	Ψ300	Ψ-100									Total ≈	\$16,900	\$53,200
										Oct	Nov	Dec	Total	1
Port 7A-2005	Jan	Feb	Mar	Apr	May	Jun	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>		<u>Nov</u>			I
Port 7A-2005 2002	Jan	Feb	Mar	Apr	May				\$100	\$100	\$150	\$150	\$500	
	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$100 \$775	\$100 \$775	\$150 \$775	\$150 \$775	\$500 \$9,300	
2002			\$775 \$820						\$100	\$100	\$150	\$150	\$500 \$9,300 \$9,840	
2002 2003	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$100 \$775	\$100 \$775	\$150 \$775	\$150 \$775	\$500 \$9,300 \$9,840 \$1,060	
2002 2003 2004	\$775 \$820	\$775 \$820	\$775 \$820	\$775	\$775	\$775	\$775	\$775	\$100 \$775	\$100 \$775	\$150 \$775	\$150 \$775 \$820	\$500 \$9,300 \$9,840 \$1,060 <u>\$0</u>	
2002 2003 2004 2005	\$775 \$820	\$775 \$820	\$775 \$820	\$775	\$775	\$775	\$775	\$775	\$100 \$775	\$100 \$775	\$150 \$775	\$150 \$775	\$500 \$9,300 \$9,840 \$1,060	
2002 2003 2004 2005	\$775 \$820	\$775 \$820 \$372	\$775 \$820	\$775	\$775	\$775	\$775	\$775	\$100 \$775	\$100 \$775	\$150 \$775	\$150 \$775 \$820	\$500 \$9,300 \$9,840 \$1,060 <u>\$0</u>	
2002 2003 2004 2005 2006	\$775 \$820 \$372	\$775 \$820	\$775 \$820 \$316	\$775 \$820	\$775 \$820	\$775 \$820	\$775 \$820	\$775 \$820	\$100 \$775 \$820	\$100 \$775 \$820	\$150 \$775 \$820	\$150 \$775 \$820 Total ≈	\$500 \$9,300 \$9,840 \$1,060 \$0 \$20,700	
2002 2003 2004 2005 2006 Port 7A-2006	\$775 \$820 \$372	\$775 \$820 \$372	\$775 \$820 \$316	\$775 \$820	\$775 \$820	\$775 \$820	\$775 \$820	\$775 \$820	\$100 \$775 \$820	\$100 \$775 \$820	\$150 \$775 \$820 <u>Nov</u>	\$150 \$775 \$820 Total =	\$500 \$9,300 \$9,840 \$1,060 \$0 \$20,700 Total	
2002 2003 2004 2005 2006 Port 7A-2006 2002	\$775 \$820 \$372	\$775 \$820 \$372	\$775 \$820 \$316	\$775 \$820	\$775 \$820	\$775 \$820	\$775 \$820	\$775 \$820	\$100 \$775 \$820	\$100 \$775 \$820 Oct	\$150 \$775 \$820 <u>Nov</u> \$165	\$150 \$775 \$820 Total = <u>Dec</u> \$165	\$500 \$9,300 \$9,840 \$1,060 \$0 \$20,700 Total \$0 \$1,785	
2002 2003 2004 2005 2006 Port 7A-2006 2002 2003	\$775 \$820 \$372	\$775 \$820 \$372	\$775 \$820 \$316	\$775 \$820 <u>Apr</u>	\$775 \$820 <u>May</u>	\$775 \$820 <u>Jun</u>	\$775 \$820 <u>Jul</u>	\$775 \$820	\$100 \$775 \$820 <u>Sep</u>	\$100 \$775 \$820	\$150 \$775 \$820 <u>Nov</u>	\$150 \$775 \$820 Total =	\$500 \$9,300 \$9,840 \$1,060 \$0 \$20,700 Total \$0 \$1,785 \$2,600	
2002 2003 2004 2005 2006 Port 7A-2006 2002 2003 2004	\$775 \$820 \$372 <u>Jan</u>	\$775 \$820 \$372 Feb	\$775 \$820 \$316 <u>Mar</u>	\$775 \$820 <u>Apr</u> \$165	\$775 \$820 <u>May</u> \$165	\$775 \$820 <u>Jun</u> \$165	\$775 \$820 <u>Jul</u> \$165	\$775 \$820 Aug \$165	\$100 \$775 \$820 \$ep	\$100 \$775 \$820 Oct	\$150 \$775 \$820 <u>Nov</u> \$165	\$150 \$775 \$820 Total = <u>Dec</u> \$165	\$500 \$9,300 \$9,840 \$1,060 \$0 \$20,700 Total \$0 \$1,785	\$25,550

Case/Year							iememai r						_	2005-06
Port 7B-2005	<u>Jan</u>	Feb	Mar	<u>Apr</u>	May	<u>Jun</u>	Jul	<u>Aug</u>	Sep	<u>Oct</u>	Nov	Dec	<u>Total</u>	
2002									\$100	\$100	\$150	\$150	\$500	
2003	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$9,300	l
2004	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$9,840	
2005	\$372	\$372	\$316										\$1,060	
2006	Ψ0.2	¥0. =	4 0.0										\$0	
2000												Total =	\$20,700	\$20,700
Port 8A-2005	lan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
2002	<u>Jan</u>	TED	IVICII	Obi	ivitiy	<u> </u>	<u>901</u>	Aug	\$100	\$100	\$150	\$150	\$500	
	ホッフ に	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$9,300	
2003	\$775				\$820		\$820		\$820					
2004	\$820	\$820	\$820	\$820	⊅ 0∠∪	\$820	φοΖυ	\$820	⊅02 0	\$820	\$820	\$820	\$9,840	
2005	\$372	\$372	\$316										\$1,060	
2006												Total =	<u>\$0</u> \$20,700	
				A	14	l	11		0	0-4	N			
Port 8A-2006 2002	<u>Jan</u>	<u>Fe</u> b	Mar	Apr	<u>May</u>	<u>Jun</u>	<u>Jul</u>	Aug	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Total</u>	
2003													\$0	
2004				\$50	\$50	\$100	\$100	\$150	\$150	\$200	\$200	\$200	\$1,200	
	6000	#OFO	\$250	\$250	\$250	\$250	\$250	\$250	\$250	\$250		\$250	\$2,950	
2005	\$200	\$250		φ230	Φ 230	4230	\$250	\$250	Φ 230	争と30	\$250	φ 2 30		
2006	\$250	\$250	\$150										\$650	***
												Total =	\$4,800	\$25,500
Port 8B-2005	Jan	Feb	Mar	<u>Apr</u>	May	Jun	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec	Total	
2002									\$100	\$100	\$150	\$150	\$500	
2003	\$775	\$775	\$775	\$775	\$77 5	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$9,300	
2004	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$9,840	
2005	\$372	\$372	\$316										\$1,060	
2006													<u>\$0</u>	
												Total =	\$20,700	\$20,700
Port 9A -2005	Jan	Feb	Mar	Apr	Мау	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
2002									\$100	\$100	\$150	\$150	\$500	
2003	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$808	\$9,696	
2004	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$10,296	
2005		\$250	\$258	ΨΟΟΟ	Ψυσυ	ψυσυ	ψυσυ	ψυσυ	ΨΟΟΟ	ΨΟΟΟ	Ψοσο	4000	\$908	
	\$400	\$250	\$250											
2006												T-1-1	\$0	
												Total =	\$21,400	
Port 9A -2006	<u>Jan</u>	<u>Feb</u>	Mar	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	Aug	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Total</u>	
2002													\$0	i
2003	\$100	\$100	\$190	\$190	\$190	\$190	\$190	\$190	\$190	\$190	\$280	\$280	\$2,280	
2004	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	
2005	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	
2006	\$350	\$250	\$170										\$770	
												Total =	\$15,050	\$36,450
Port 9B -2005	Jan	Feb	Mar	Apr	May	Jun	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec	Total	
2002	van	1 60	171641	- 151	iriu	<u>our</u>	<u>501</u>	· mA	\$100	\$100	\$150	\$150	\$500	
	\$ 000	0000	\$808	\$808	\$808	\$808	GDVB	\$808	\$808		\$808	\$808	\$9,696	
2003	\$808	\$808					\$808			\$808				
2004	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$858	\$10,296	
2005	\$400	\$250	\$258										\$908	1
2006													<u>\$0</u>	
,												Total =	\$21,400	
Port 9B-2006	<u>Jan</u>	Feb	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	Aug	<u>Sep</u>	<u>Oct</u>	Nov	Dec	Total	
2002			_										\$0	
2003	\$100	\$100	\$100	\$150	\$530	\$530	\$530	\$530	\$530	\$530	\$530	\$530	\$4,690	
2003	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$1,050	\$12,600	1
					\$1,050	\$1,050	\$1,050					\$1,050	\$12,600	}
2005	\$1,050	\$1,050	\$1,050	\$1,050	φ1,000	φ1,050	φ1,000	\$1,050	\$1,050	\$1,050	\$1,050	φι,υου		1
2006	\$500	\$400	\$210									T-1-1	\$1,110	\$52,400
-												Total =	\$31,000	\$5:

Integration Cash Flow - Supplemental RFP 2005-06 Case/Year Dec Total Oct Nov May Aug Sep Feb Mar Apr <u>Jun</u> <u>Jul</u> Port 10-2005 <u>Jan</u> \$100 \$100 \$150 \$150 \$500 2002 \$775 \$9,300 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 2003 \$820 \$820 \$820 \$820 \$9,840 \$820 \$820 \$820 \$820 \$820 \$820 \$820 \$820 2004 \$1,060 \$372 \$316 \$372 2005 \$0 2006 \$20,700 Total = **Total** <u>Oct</u> Nov Dec Sep Port 10-2006 <u>Jan</u> Feb Mar Apr May <u>Jun</u> <u>Jul</u> Aug 2002 \$0 2003 \$200 \$1,200 \$100 \$150 \$150 \$200 \$200 \$50 \$50 \$100 2004 \$250 \$250 \$250 \$2,950 \$250 \$250 \$250 \$250 \$250 \$250 \$250 \$200 \$250 2005 \$700 \$200 2006 \$250 \$250 \$25.550 Total = \$4,850 Total Sep Oct Nov Dec May Jun Jul Aug Feb Mar Apr Comb 1-2005 <u>Jan</u> \$500 \$100 \$150 \$150 \$100 2002 \$16,320 \$1,360 \$1,360 \$1,360 \$1,360 \$1,360 \$1,360 \$1,360 \$1,360 \$1,360 2003 \$1,360 \$1,360 \$1,360 \$18,120 \$1,510 \$1,510 \$1,510 \$1,510 \$1,510 \$1,510 \$1,510 \$1,510 \$1,510 \$1,510 \$1,510 \$1,510 2004 \$1,360 2005 \$560 \$500 \$300 <u>\$0</u> 2006 Total = \$36,300 **Total** Oct Nov <u>Dec</u> Sep Comb 1-2006 <u>Jan</u> Feb Mar Apr May <u>Jun</u> <u>Jul</u> Aug \$0 2002 \$150 \$500 \$100 \$100 \$150 2003 \$9,300 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 2004 \$9,840 \$820 \$820 \$820 \$820 \$820 \$820 2005 \$820 \$820 \$820 \$820 \$820 \$820 \$1,010 \$372 \$266 2006 \$372 \$20,650 \$56,950 Total = Total Nov Dec Mar May Jun Jul Aug Sep Oct Feb Apr Comb 2-2005 <u>Jan</u> \$150 \$500 \$100 \$100 \$150 2002 \$9,600 \$800 \$800 \$800 \$800 \$800 \$800 \$800 \$800 \$800 \$800 \$800 \$800 2003 \$850 \$10,200 \$850 \$850 \$850 \$850 \$850 \$850 \$850 \$850 \$850 \$850 \$850 2004 \$1,450 \$450 \$500 \$500 2005 <u>\$0</u> 2006 \$21,750 Total = Sep <u>Oct</u> Nov <u>Dec</u> <u>Total</u> <u>Jul</u> Aug Comb 2-2006 <u>Jan</u> <u>Feb</u> Mar <u>Apr</u> May <u>Jun</u> \$0 2002 \$500 \$100 \$100 \$150 \$150 2003 \$775 \$9,300 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 2004 \$820 \$820 \$820 \$820 \$820 \$820 \$9,840 \$820 \$820 \$820 \$820 \$820 \$820 2005 \$960 \$372 \$372 \$216 2006 Total = \$20,600 \$42,350 Dec Total Oct Nov May <u>Jul</u> Aug Sep Comb 3-2005 Feb Mar Apr <u>Jun</u> <u>Jan</u> \$100 \$150 \$150 \$500 \$100 2002 \$775 \$9,300 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 \$775 2003 \$775 \$775 \$820 \$9,840 \$820 \$820 \$820 \$820 \$820 \$820 \$820 \$820 \$820 \$820 \$820 2004 \$1,060 \$316 2005 \$372 \$372 \$0 2006 Total = \$20,700 Oct <u>Total</u> Nov <u>Dec</u> Comb 3-2006 <u>Feb</u> Mar Apr <u>May</u> <u>Jun</u> <u>Jul</u> Aug Sep <u>Jan</u> \$0 2002 \$0 2003 \$100 \$25 \$25 \$50 2004 \$100 \$1,200 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 \$100 2005 \$100 2006 \$50 \$25 \$25 \$1,400 \$22,100 Total =

Case/Year										445 4.55				2005-06
Comb 4-2005	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	Nov	<u>Dec</u>	<u>Total</u>	
2002													\$0	
2003									\$100	\$100	\$150	\$150	\$500	
2004	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$9,300	· ·
2005	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$9,840	
2006	\$372	\$372	\$266										\$1,010	
												Total =	\$20,650	
Comb 4-2006 2002	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Jun</u>	<u>Jul</u>	<u>Aug</u>	<u>Sep</u>	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Total</u> \$0	
2002							\$100	\$100	\$150	\$200	\$200	\$200	\$950	
2003	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$500	\$6,000	
2004	\$700	\$700	\$700	\$700	\$700	\$700	\$700	\$700	\$700	\$700	\$700	\$700	\$8,400	
2006	\$350	\$250	\$200	Ψ/ΟΟ	Ψίζο	Ψ/ 00	Ψ/00	Ψίου	Ψ/σσ	Ψίου	Ψ/σσ	Ψίου	\$800	
2000	φυσο	ψεσσ	4200									Total =	\$16,150	\$36,800
Comb 5-2005	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	<u>Sep</u>	Oct	Nov	Dec	Total	
2002	<u>5411</u>	100	11141										\$0	
2003									\$100	\$100	\$150	\$150	\$500	
2004	\$800	\$800	\$800	\$800	\$800	\$800	\$800	\$800	\$800	\$800	\$800	\$800	\$9,600	
2005	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$850	\$10,200	
2006	\$400	\$400	\$300										\$1,100	
	•											Total =	\$21,400	
Comb 5-2006	Jan	Feb	Mar	<u>Apr</u>	May	<u>Jun</u>	<u>Jul</u>	Aug	Sep	Oct	Nov	Dec	Total	
2002													\$0	
2003									\$100	\$100	\$150	\$150	\$500	
2004	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$775	\$9,300	
2005	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$820	\$9,840	[
2006	\$400	\$400	\$260										<u>\$1,060</u>	1
												Total =	\$20,700	\$42,100

Integration Facilities and Cost for All FPL Plan

Summer MW and Plant Type	Facilities required for Integration as an FPL Network Resource	
All FPL Plan Year 2005	Year 2005	(In 2002\$) (\$000)
Martin CC Conversion of two existing CT's to 4x1 CC = 1107 MW (789 MW Incremental) (Generation connected to Martin 230kV substation)	⇒ New Circuits: Martin – Indiantown #2 230kV to at least 912 MVA Indiantown – Bridge #2 230kV to at least 747 MVA	\$ 11,700 \$ 8,900
Manatee 4x1 CC = 1107 MW (Generation connected to Manatee 230kV substation)	⇒ Upgrades of existing Circuits: Charlotte – Calusa 230kV from 1600A to 1875A Manatee-Johnson 230kV from 2580A to 2710A Manatee-Ringling #3 230kV from 2580A to 2710A Charlotte-Ft.Myers #2 230kV from 1290A to 1565A Ranch - Homeland 230kV from 1290A to 1330A	\$ 50 \$ 700 \$ 350 \$ 350 \$ 50
	All FPL Plan Total Integration Costs	\$ 22,100