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COMMISSION
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August 24, 2005

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

Subject: Addendum to the City of Tallahassee's Ten-Year Site Plan

It has come to our attention that Schedule 1 has expected retirement dates listed for the Purdom GT's that should be reflected in the Generation Expansion Plan. Schedule 8 reflects the changes made per the PSC's request to list retired units as well as prospective generating facility additions.

Sincerely,

Venus Childs
Planning Engineer

CMP _____

COM _____

CTR _____

ECR Haff + cover letter

GCL _____

OPC _____

RCA _____

SCR _____

SGA _____

SEC 1

OTH Kin-org + 2 w/ cover letter

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FPSC-COMMISSION CLERK

City Of Tallahassee

**Schedule 1
Existing Generating Facilities
As of December 31, 2004**

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
<u>Plant</u>	<u>Unit No.</u>	<u>Location</u>	<u>Unit Type</u>	<u>Fuel Pri</u>	<u>Fuel Alt</u>	<u>Fuel Transport</u>		<u>Alt. Fuel Days Use</u>	<u>Commercial In-Service Month/Year</u>	<u>Expected Retirement Month/Year</u>	<u>Gen. Max. Nameplate (kW)</u>	<u>Net Capability</u>	
						<u>Primary</u>	<u>Alternate</u>					<u>Summer (MW)</u>	<u>Winter (MW)</u>
Sam O. Purdom	7	Wakulla	ST	NG	FO6	PL	WA		Jun-66	3/11	50,000	48	50
	8		CC	NG	FO2	PL	TK		Jul-00	12/40	247,743	233	262
	GT-1		GT	NG	FO2	PL	TK		Dec-63	3/08	15,000	10	10
	GT-2		GT	NG	FO2	PL	TK		May-64	3/09	15,000	10	10
		Plant Total										301	332
A. B. Hopkins	1	Leon	ST	NG	FO6	PL	TK		May-71	3/16	75,000	76	78
	2		ST	NG	FO6	PL	TK		Oct-77	3/22	259,250	228	238
	GT-1		GT	NG	FO2	PL	TK		Feb-70	3/15	16,320	12	14
	GT-2		GT	NG	FO2	PL	TK		Sep-72	3/17	27,000	24	26
		Plant Total										340	356
C. H. Corn Hydro Station	1	Leon/ Gadsden	HY	WAT	WAT	WAT	WAT		Sep-85	UNKNOWN	4,440	4	4
	2		HY	WAT	WAT	WAT	WAT		Aug-85	UNKNOWN	4,440	4	4
	3		HY	WAT	WAT	WAT	WAT		Jan-86	UNKNOWN	3,430	3	3
		Plant Total										11	11
TOTAL SYSTEM CAPACITY AS OF DECEMBER 31, 2004												<u>652</u>	<u>699</u>

Table 1.1

City Of Tallahassee

Schedule 8

Planned and Prospective Generating Facility Additions and Changes

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
<u>Plant Name</u>	<u>Unit No.</u>	<u>Location</u>	<u>Unit Type</u>	<u>Fuel</u>		<u>Fuel Transportation</u>		<u>Const. Start Mo/Yr</u>	<u>Commercial In-Service Mo/Yr</u>	<u>Expected Retirement Mo/Yr</u>	<u>Gen. Max. Nameplate (kW)</u>	<u>Net Capability</u>	
				<u>Pri</u>	<u>Alt</u>	<u>Pri</u>	<u>Alt</u>					<u>Summer (MW)</u>	<u>Winter (MW)</u>
Purdorm [3]	1	Purdorm	GT	NG	DFO	PL	TK		Dec-63	3/08	15,000	10	10
Purdorm [3]	2	Purdorm	GT	NG	DFO	PL	TK		May-64	3/09	15,000	10	10
Purdorm	7	Purdorm	ST	NG	DFO	PL	WA		Jun-66	3/11	50,000	48	50
Hopkins [1]	3	Hopkins	GT	NG	DFO	PL	TK	Unknown	Jul-05			47	50
Hopkins [1]	4	Hopkins	GT	NG	DFO	PL	TK	Unknown	Sep-05			47	50
Hopkins [2]	A	Undetermined	CC	NG	DFO	PL	TK	Unknown	May-10 May-11 May-13			25 75 25	25 75 25

[1] The generating unit Combustion Turbines 3 and 4 are located at the Hopkins plant.

[2] This combined cycle capability is reflected as an alliance ownership/purchase beginning with 25 MW in May 2010, increasing to 100 MW in May 2011, and 125 MW in May 2013. This capacity could take the form of a new, self-build unit; an asset modification (repowering of an existing conventional oil and gas-fired steam unit to combined cycle operation); an alliance purchase "by wire" (if transmission is available) and/or joint generation project; or a combination thereof. The City's back up plan for this capacity would be to self-build a combined cycle unit.

[3] A postponement of the planned retirement date until 2010 is currently being evaluated as part of the current integrated resource planning study

<u>Acronym</u>	<u>Definition</u>
IC	Internal Combustion
GT	Gas Turbine
PRI	Primary Fuel
ALT	Alternate Fuel
NG	Natural Gas
DFO	Diesel Fuel Oil
PL	Pipeline
TK	Truck
WA	Water
P	Planned
U	Under Construction
kW	Kilowatts
MW	Megawatts

City Of Tallahassee

Generation Expansion Plan

Year	<u>Load Forecast & Adjustments</u>			Existing Capacity Net (MW)	Firm Imports (MW)	Southern Purchase (MW)	Firm Exports (MW)	Resource Additions Cumulative (MW)	Total Capacity (MW)	Res %	New Resources
	Fcst Peak Demand (MW)	DSM [1] (MW)	Net Peak Demand (MW)								
2005	597	2	595	652	11	25 [2]	47 [3]	735	24		
2006	609	4	605	652	11		94	757	25	[3]	
2007	622	4	618	652	11		94	757	22		
2008	632	4	628	652	11		94	757	21		
2009	642	4	638	652	11		94	757	19		
2010	652	4	648	632 [4]	11		119	762	18	[6]	
2011	661	4	657	584 [5]	11		194	789	20	[6]	
2012	671	4	667	584	11		194	789	18		
2013	681	4	677	584	11		219	814	20	[6]	
2014	690	4	686	584	11		219	814	19		

[1] DSM = Demand Side Management

[2] Purchase in summer 2005 for 25 MW from Southern Company June 1 - Aug 30..

[3] New resources are to be (2) 47 MW (Summer Net) GE LM6000 aeroderivative ct's

[4] Reflects postponement of planned retirement of Purdom GT1 and GT2 until May 2010

[5] Purdom 7 official retirement currently scheduled for March 2011.

[6] This combined cycle capability is reflected as an alliance ownership/purchase beginning with 25 MW in May 2010, increasing to 100 MW in May 2011, and 125 MW in May 2013. This capacity could take the form of a new, self-build unit; an asset modification (repowering of an existing conventional oil and gas-fired steam unit to combined cycle operation); an alliance purchase "by wire" (if transmission is available) and/or joint generation project; or a combination thereof. The City's back up plan for this capacity would be to self-build a combined cycle unit.

Chapter IV

Proposed Plant Sites and Transmission Lines

4.1 PROPOSED PLANT SITE

The City's proposed resource addition to meet system needs in the summer 2010 and beyond is an increasing ownership/purchase of capacity and energy from a new 1-on-1 combined cycle unit beginning with 25 MW in 2010. The ownership increases to 100 MW by the summer of 2011 and to 125 MW by the summer of 2013 to meet the balance of needs throughout the 2005-2014 study period. This is a proposed resource addition as previously mentioned and is not final. Other possible combined cycle opportunities include a self-built unit, an asset modification (repowering of an existing conventional oil and gas-fired steam unit to combined cycle operation) and an alliance purchase by wire (if transmission is available) or a combination thereof. In addition to the CT units previously discussed, any of the contemplated combined cycle unit options could be accommodated at the City's existing Hopkins Plant Site. It is also possible that a new "green field" site might be identified if the self-build option is pursued (see Tables 4.1 - 4.3: Schedule 9).

4.2 TRANSMISSION LINE ADDITIONS/UPGRADES

Internal studies of the transmission system have identified a number of system improvements and additions that will be required to reliably serve future load. The attached transmission system map (Figure D1) shows the planned transmission additions covered by this Ten Year Site Plan.

Over the last decade, the City has experienced significant growth and development, and a corresponding increase in the demand for electricity. This has been especially true in the fast growing eastern portion of the City and adjacent Leon County where development has outpaced the construction of electric transmission lines and substations. The only acceptable and permanent way of providing a reliable source of electricity and providing for continuing growth to the eastern part of Tallahassee is to