



Charles A Guylon

May 6, 1997

By Hand Delivery

Blanca S Bayo, Director Records and Reporting Florida Public Service Commission 4075 Esplanade Way, Room 110 Tallahassee, Florida 32399-0850

940346 EG

Re: Off Peak Battery Charging Program

Dear Ms Bayo

Enclosed for filing on behalf of Florida Power & Light Company are the original and fifteen (15) copies of Petition For Modification of Florida Power & Light Company's Off Peak Battery Charging Program

If you or your Staff have any questions regarding this filing, please contact me

Very truly yours.

Charles A Guyton

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FPSC-RECORDS/REPORTING

#### BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

FILE COPY

In Re: Petition for Modification of	)	Docket No.
Florida Power & Light Company's	)	
Off Peak Battery Charging Program	)	Filed: May 6, 1997

### PETITION FOR MODIFICATION OF FLORIDA POWER & LIGHT COMPANY'S OFF PEAK BATTERY CHARGING PROGRAM

Florida Power & Light Company ("FPL"), pursuant to Section 366.82(2), Florida Statutes (1995), hereby petitions the Florida Public Service Commission ("Commission") to (1) approve the modifications to FPL's Off Peak Battery Charging Program set forth in this petition and attachments, (2) allow FPL to recover reasonable and prudent expenditures for the modified Off Peak Battery Charging Program, and (3) include FPL's modified Off Peak Battery Charging Program as part of FPL's approved DSM Plan. The grounds for this petition are:

1 FPL's address is 9250 West Flagler Street, Miami Florida, 33174. Correspondence, notices, orders and other documents concerning this petition should be sent to.

Matthew M. Childs, P.A. Charles A. Guyton Steel Hector & Davis LLP Suite 601, 215 S. Monroe St. Tallahassee, Florida 32301 William G. Walker Vice President, Regulatory Affairs Florida Power & Light Company 9250 West Flagler Street Miami, Florida 33174

2 FPL is an investor-owned electric utility regulated by the Commission pursuant to Chapter 366, Florida Statutes. FPL is subject to the Florida Energy Efficiency Conservation Act ("FEECA"), Section 366.80-85, 413.519, Florida Statutes (1995), and its Energy Conservation

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Cost Recovery ("ECCR") clause is subject to the Commission's jurisdiction. FPL has

Commission approved conservation goals. See, Order No. PSC-94-1313-FOF-EG issued on

October 25, 1994. The Commission has previously approved a FPL DSM Plan to meet the goals
approved for FPL. See, Order Nos. 95-1343-S-EG, 95-1343A-S-EG. As part of that DSM Plan
the Commission approved FPL's Off Peak Battery Charging Program. FPL has a substantial
interest in whether this program is modified as requested by FPL in this petition, approved as part
of FPL's DSM Plan, and authorized for cost recovery.

- 3. The objective of the Off Peak Battery Charging Program is to reduce the current coincident peak demand and the future growth of coincident peak demand on FPL's system by shifting from on-peak to off-peak time periods the demand from battery charging applications. Under this program FPL provides incentives to customers (or their designees) for installation of a control system that restricts a participating customer's battery charging to off-peak periods. The Off Peak Battery Charging Program, as FPL proposes to modify it, is more fully described in Appendix A attached to this petition.
- 4. The Off Peak Battery Charging Program, as modified, will help advance the policy objectives set forth in Rule 25-17.001, Florida Administrative Code and the FEECA. As shown in Appendix A, the modified Off Peak Battery Charging Program will reduce cumulative summer peak demand by 302 kW and winter peak demand by 28 kW for the period 1998 through 2000.

- 5 The Off Peak Battery Charging Program, as modified, is projected to be cost-effective Appendix B, attached hereto, shows the results of the cost-effectiveness analyses of the program using the Commission's methodology prescribed in Rule 25-17.008, Florida Administrative Code and supply option cost and performance assumptions from FPL's most recent resource plan. FPL seeks to modify the Off Peak Battery Charging Program to increase program participation. To increase participation in the Off Peak Battery Charging Program, FPL proposes to increase the incentive per kw of on-peak battery reduction from \$57 to no more than \$75. This modification should increase participation while allowing the program to continue to achieve a benefit/cost rado greater than 1.0 under the RIM and Participants tests.
- 6. The Off Peak Battery Charging Program, as modified, is directly monitorable and will yield measurable results. FPL's monitoring plan is described in Section VI of Appendix A. This is the same monitoring plan which FPL has been following in the existing program, and it has yielded measurable results.
  - 7 FPL is not aware of any disputed issues of material fact
- 8 FPL respectfully requests that this petition be processed with the Commission's Proposed Agency Action procedure, which is recognized in Section 120 80(13)(b), Florida Statutes

WHEREFORE, FPL respectfully petitions the Commission to (1) approve the Off Peak Battery Charging Program, as modified, (2) allow FPL to recover reasonable and prudent expenditures for the Off Peak Battery Charging Program, as modified, through FPL's ECCR clause, and (3) approve the Off Peak Battery Charging Program, as modified, as part of FPL's approved DSM Plan.

Respectfully submitted,

STEEL HECTOR & DAVIS LLP Suite 601, 215 S. Monroe St Tallahassee, Florida 32301-1804

Attorneys for Florida Power & Light Company

Charles A Guyto

#### BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In Re: Petition for Modification of	)	Docket No.
Florida Power & Light Company's	)	
Off Peak Battery Charging Program	)	Filed: May 6, 1997

#### CERTIFICATE OF SERVICE

I hereby certify that on this the 6th day of May, 1997, a copy of the foregoing Petition for Modification of Florida Power & Light Company's Off Peak Battery Charging Program was served by hand delivery\* or First Class United States Mail on the following

Robert V Elias, Esquire\*
Chief of Electric & Gas
Division of Legal Services
Florida Public Service Commission
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850

Jack Shreve, Esquire Public Counsel Office of Public Counsel Room 812 111 West Madison Street Tallahassee, Florida 32399-1400

Charles A Guyton

#### APPENDIX A

#### COMMERCIAL / INDUSTRIAL OFF PEAK BATTERY CHARGING PROGRAM

#### I. Program Description

The Commercial / Industrial Off Peak Battery Charging Program is designed to reduce the current coincident peak demand and the future growth of coincident peak demand by shifting from on-peak to off-peak time periods the demand from battery charging applications. This is accomplished by the installation of a control system that will restrict a participating customer's battery charging to off-peak periods.

FPL will provide an incentive to customers (or their designees) who install an FPL approved control system. The participating customers will also receive any operating savings derived from the installation of the control equipment.

FPL plans to make commercial and industrial customers aware of this program through dealers, distributors, contractors, retail outlets and other trade allies, appropriate advertising and promotion activities, as well as direct contact with potential participants by FPL personnel

#### II. Summary of Program Changes

FPL's current Off-Peak Battery Charging Program has an incentive of \$57 per kw of summer peak reduction reduced. Based on the latest cost-effectiveness analysis for this program, the incentive is being increased to a level not to exceed \$75 per kw of summer peak reduction.

#### III. Description of Program Administration

The program will be available to FPL commercial and industrial customers who are demand billed and have facilities with electric battery charging loads that can be effectively shifted, through the use of a control system, from FPL's daily on-peak time periods. A minimum of 70 percent of the battery charging load must be controlled by the control system.

To qualify, the control system being considered by the customer shall meet or exceed, to FPL's satisfaction the functional specifications developed by FPL. The functional specifications shall consist of both the equipment and installation requirements, which will be made a part of FPL's Program Standards. The Program Standards will be subject to periodic review and may change over time based on factors such as, but not limited to, technological advances, operational needs, program results, application assumptions and incentive amounts

The customer will have the option to select existing eligible control equipment (i.e., equipment that has met or exceeded the program's functional specifications) or have FPL review other control equipment the customer desires to install. For customers who desire to install equipment not currently eligible to participate in the program, the customer will provide to FPL manufacturer literature, contractor documentation and any other supporting literature which clearly indicates how the proposed system will perform as required to meet or exceed FPL's functional specifications. Upon submission and review of the information, FPL will determine whether the customer and the equipment are eligible to participate in the program.

The incentive listed by the Program Standards shall not exceed \$75 per kw of summer peak load controlled. No incentive amount shall exceed the purchase price of the equipment which would be installed in order to effectively perform the required load shifting.

The customer's kw controlled amount derived by FPL is an engineering estimate based upon customers with similar load characteristics that can be grouped into a typical category/application (i.e., golf courses) and will be defined by the Program Standard. Alternatively, for loads without a typical category/application, the kw controlled amount derived by FPL will be an engineering estimate of a customer's individual load characteristics.

Prior to an incentive being issued, the participant must provide to FPL an itemized invoice for the completed installation. FPL will do post-installation inspections to verify the proper operation of controllers and the actual number of circuits being controlled.

A customer receiving an incentive under this program shall repay the incentive plus interest to FPL if the customer: 1) takes service at the customer's facility under a non-qualifying rate as specified in the Program Standard within five years of receiving the incentive, 2) fails to maintain and operate the equipment (i.e., the control or battery charging equipment), or 3) removes or disconnects the equipment

The participating customer will allow FPL, at FPL's discretion, to access, monitor and/or analyze the customer's load (total, and battery charging, etc.), and conduct post-installation inspections.

All incentive requests will be tracked by a computer system, which will record a history of the incentive payments made to customers.

#### IV. Projected Participation and Savings

The projected demand savings for the period 1998 through 2000 are 302 kW of summer peak demand reduction and 28 kW of winter peak demand reduction. The demand reduction projections are based on engineering assumptions and calculations

#### V. Cost-Effectiveness Analysis

FPL has used the Commission approved cost-effectiveness methodologies required by Rule 25-17.008 to determine the cost-effectiveness of this program. These cost-effectiveness analyses can be found in Appendix B. These analyses show the following benefit-cost ratios for the Commercial / Industrial Off Peak Battery Charging Program: 2.32 Participants, 1.63 RIM, 2.88 TRC

#### VI. Program Monitoring and Evaluation

The impact of this program on demand and energy consumption will be evaluated over time by FPL.

Baseline data will be developed from non-participants, and participants' data will be compared against non-participants' data to establish usage patterns and demand impacts and to validate engineering assumptions.

FPL will utilize any or all three major impact evaluation analysis methods in a manner that most costeffectively meets the overall impact evaluation objectives -- engineering analysis, statistical billing analysis, and on-site metering research. As these evaluations proceed, the components to be analyzed and the periods for which data is available will increase, resulting in continual enhancements in the scope and accuracy of reported evaluation results.

Appendix B

Cost-effectiveness Run

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2001 DONSTRUCTION CASH 104 104 10704 DEST AFUDC 6 10 70% 6 10 70% DEST AFUDC 6 4 4 4 10 70% DEST AFUDC 6 10 70% DEST AFUDC 7 1													
2001 CONSTRUCTION CASH 104 104 104 285 EGUITY AFLOC 6 4 4 4 CONTROL CO							BOOK BASS	BOOK BASIS FOR DEF TAX	TAX BASIS				
10 TON DEST AFUDG	1	and the same of the same of			Property of Party	Patent.	70	77	ı				
10 TON DEST AFUNC		IN DESTANCE YEAR			CONSTRUCTION OF THE PERSON	1		\$					
No.		AFUDC RATE			DEBT AFUDC		•	•	V				
					5	0.00							

\* Column not apacified in workbook

	G	(2)	200	¥.	i	5		
15.00	CUMALATIVE TOTAL PARTICIPATING CUSTOMERS	CURACATIVE AGAISTED TOTAL CURACATIVE PARTICIPATING PARTICIPATING CUSTOMERS CUSTOMERS	SYSTEM SYSTEM FUEL COST	AVOIDED HANTGRAL FUEL COST (CAMP)	MACREAGED MARCHAL FUEL COST	REPLACEMENT FUEL COST (CAMP)	PROGRAM NV PROGRAM NVN EFFECTNENESS EFFECTNENESS FACTOR FACTOR	PROGRAMA N EFFECTIVEN FACTOR
8	0	6	800	2.69	8.7	000	100	
188	٥	0	0000	272	2.39	800	8	
8	12	52	8	2.85	245	000	8	
8	H	H	8	300	8	80	8	-
8	COX	X	8	3"	2.60	80	8	-
8	XX	EX.	800	3.96	2.01	2.28	81	-
200	200	X	8 0	3.75	2.77	2.50	8	-
500	DE .	200	80	3.70	2 76	2.48	8,	
8	XX	200	80	4 08	8	2 96	8	-
900	X	×	90	4.20	306	3.22	8	-
9000	XXX	g	80	40	324	3.45	8	
1000	×	Ø	800	477	9 17	27.0	8	8
2000	OK.	Ø	0.00	4.91	3.56	367	81	8,
5000	206	×	000	5.21	3.77	3 83	8	8.
8	DOX.	Ħ	8	1 80	3.86	4.38	8	8
5	DX.	N	900	20.00	02.4	4.78	5	8
012	300	×	000	6.16	4.39	474	81	
2013	DX.	S	000	7.0	447	8.00	8	180
7,0	DO	N	800	6.36	4.61	200	8	•
510	ğ	N	800	7.08	104	5.67	8	18
016	303	Ħ	000	7.11	\$ 12	3.80	8	180
210	DOX.	200	90 0	7.56	27.6	\$ 95	8	8
10	305	×	90 0	22	5.48	633	8	
2013	206	Ø	800	8.22	29.5	4	8	
1	500	-	900	A 40	8.79	6.53	100	

\* Theit COLLMAN IS USED ONLY FOR LOAD SHIETING PROCESSES WHICH SHIET CONSUMPTION TO OFF-PEUX PERIODS. THE VALUES REPRESENT THE OFF PEUX SYSTEM FUEL COSTS.

AVOIDED (AVERTANCE BENEFITS PROGRAM METHOD SELECTED REV\_RED PROGRAM MARE OF Peris Battery Charging.

	AVOIDED	AVOIDED	AVOIDED	AVOIDED	(A)	AVOIDED
77.40	CAPACITY COST	FUED ORM	VANDAGE DEM	PUEL COST	FUEL COST	BENEFITS BIODO:
1900	0	0	0	0	0	0
120	0	0	0	0	0	e
190	•	0	0	0	0	0
190	0	o	0	0	ø	a
ĕ	0	0	0	0	0	0
8	12	•	0	2	R	n
ä	22	•	0	4	2	72
200			0	:	2	Ä
8	2	•	0	12	r	Ε.
R	Я	•	0	1		5
8	9	•	0	47	2	Τ.
B		•	0	2	E,	£
8		•	0	R	2	12
200	- 11	•	0	11	97	R
201	9	•	0	2	2	F
5	9	*	0	2	ā	2
100	1.5	•	0	8.	я	12
200		**	0	R	п	¥
Ñ	=		0	2	22	×
200	5	•	0	n	R	F
Ř	2		0	92	n	91
2	2		0	2	7	#
5	=	4	0	2	74	2
2	9		0	18	2	2
-	-	•	•		1	

310	2	•	ŝ	278	P.
***	22		5	114	178

AVOCED 15D AND PROCEASE FUEL SAVECTS PROCEASE METHOD SELECTED REV, REQ PROCEASE NAME, OF Pass Britishy Charging.

The color   The	(1)	G	(5)	£	ŶĮ.	ě	6	库	i
Thursdatestack Thur		AVOIDED			AVOIDED	WYORDED			PROGRAM
Compared   Compared		TRANSMISSION	THANSAMSSON	TRANSMISSON	DISTRIBUTION	DISTRIBUTION		PROGRAM	OFFPEAK
	1778	CV CO51			PACCOST BOOCH	MOOD NOON		PUEL SAVANOS	\$(000)
	1,000	0	0	0	0	0	0	0	0
	1987	a	0	0	8	0	0	o	0
	1000	0	0	0	0	0	0	~	~
	1,000	*	•	**		2	•		•
	2000	•	-	•	**	•	**	2	•
	2002	•	-	*	•	10	•	11	94
	2002	•	•		•	•	•	92	2
	2003	•	•	•	•	*	•	41	36
	2000	•		**	**	•	•	1.7	
	2000	•	277	*	-	•	•	2	•
	2006	•		•	24	•	•	61	*
	200	•	-	**	**	40	•	2	2
	2000	•			*		•	I.	
	3000	•	**		-	*	*	22	-
	2010	•	*	*	2	*	•	×	-
* * * * * * * * * * * * * * * * * * *	2011	•	74	•	7	•	•	n	*
	3012		**	•	**	-	•	n	
	2013		**	•	2	•	ğ	11	•
	2014	**	**	•	**	•	9	n	
* * * * * * * * * * * * * * * * * * *	2015	-	*	•	re	•	Ď	R	#
995 -995	3016	•	*	•	-		9	16	-
222	200		*	•			-	Ħ	*
2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	2018		**	*		2	=	A	-
2 2 4 1 2 2	2018	7	**	•	-	Ď.	-	R	**
	2020			•	-	=	12	R	

5	3	R	à		-	7	2	1
-	7	1	,	,	100	9	***	9
2	7	2			,		1000	1

\* THE MALLIES REPRESENT THE COST OF THE INCREMASED FLIES, COMBUMPTION DUE TO GREATER OFF-PEAK ENEMBY USAGE, USED FOR LOAD SHIFTING PROGRAMS ONLY.

TOTAL RESOURCE COST TEST PROGRAM METHOD SELECTED REV. REQ. PROCRAM NAME OF Princh Battery Charging.

BACPEASED SUPPLY COST'S YEAR SCOOL										Ē		
	PALY PRLY TTS	PROGRAM POSTA	PARTICIPANT PROCINA COSTS	COSTS	101AL CO! 11	AVOIDED GEN UNT BENEFITS	AVOIDED TAID BENEFITS	PROGRAM FUEL SAVENGS	OTHER BENEFITS	5 F	a	TOTAL BENEFITS B
1996	600	(000)\$	\$1000	10000	NO OF	\$(000)	\$ccc)	\$(000)	\$1000		(000)	Noon Noon
	0	0	0	0	0	0	0	٥		0	0	0
1987	0	0	0	o	0	0	o	0	0		0	0
1,000	o	2	2	o	R	0	0	•	9		-	FI -
1999	0	2	13	0	8	o	•	**	0		•	E
3000	0	=	7	0	ĸ	0	•	•	a		7	14 (3)
2007	. 0	0	•	0	-	n	13	1	0		ŭ	4
2002	0	0		0	-	z	57	•	0		4	41
2003	o	0		0		**	13	•	0		3	9
2006	0	0	•	0	-	£	13		o		9	9
3008	0	0	-	0	-	2	13	~	0		9	g g
2000	0	0	-	0		F	13	•	0		ş	=
2002	0	0	•	0	-	E.	13	-	0		3	2
2008	0	0	•	0	-	z	13	-	0		3	3
9000	0	0		0	-	8	2	-	a		ij	9
3010	9	0	-	0	*	18	13	9	0		Q	*
2011	63	0	-	0	-	1.8	7	9	0		¥	*
2013	0	0		0	-	17	7	2	ø		*	=
2013	o	0	-	0	T	92	*	2	0		ŧ	*
2014	o	0	-	0		2	2	5	0		3	3
2015	0	0	•	0		2	7.	tr	0		a	9
3016	0	0	-	0	-	12	2	5	0		3	3
2017	0	0	-	0	-	27	21	2	o		ą	3
2018	0	12	n	0	3	=	13	7.	0		1	2
2018	9	2	8	0	2	2	2	15	0		4	27
9000	0	2	10	0	2	7	2	15	0		*	\$

NON	0	110	156	0	200	370	280	700
200	0	**	25	0	25	128	88	20
8	scourt Rate	111725777700		Į	9 22 %			
and:	mattaCost Ratio (Cott 1	1) / Coeffil			2.00			

27.0

Š

3	SAVNGS IN PARTICIPARTS RELS VEAR BODD		1997	1906	1 300	2000	2001	2000	2003	7007	3000	2002	2007	2006	2005	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
	45	0	0	-	•	12	:	2	13	13	2	3	:	2	15	91	9	91	17	17	17	11	11	17	10
£	TAM CREDITS MODE	0	9	0	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0	0	0	0	0
9	AEBATES \$200	0	0	•	•	•	0	0	0	0	٥	0	0	0	0	0	0	0	0	0	0	0	0	•	
£	OTHER BENEFITS NOOCI	0	0	9	0	0	0	0	0	0	0	0	o	0	0	0	0	0	0	0	0	0	0	0	0
190	TOTAL BENEFITS NOXO)	0	0	77	91	2	7		2	2	0	*	*	*	2	2	91	36	14	17	11	44	17	12	n
E	CUSTOMERS EQUIPMENT COSTS \$1000)	0	0	61	2	13	0	0	0	a	0	0	0	0	0	0	0	0	0	0	0	0	0	R	R
(g)	CUSTONER OAM COSTS \$(000)	0	0	0	0		-		-	-	-			-	-	-	-	-	•	-	-	-	-	-	-
6	OTHER COSTS ROOD	0	0	o	0	0	0	0	0	0	0	0	0	0	0	9	0	0	0	0	0	0	a	o	a
60	101AL COSTS A0009	0	0	91	11	2	*		-	-	-		-	-	-	-	-	-	-	-	-	•	-	R	Я
440	NET BENEFITS \$(000)	0	0	4	5	•	13	13		2	ţ	13	1	2	7	12	2	13	2	94	91	16	11	6	82
2	CUMLLATIVE DISCOUNTED NET BENEFITS NOTE	o	0	•	0	-	•	=	=	A	Я	56	8	¥	4	a	24	5	2	3	E	r	g.	2	

	0 130 49	2001	9.22 %	111
,	r.			
9	0			to ( Cos(5) / Cos(10))
25	110	n Service of Gen Unit	Discount Rate	Benefit/Cost Ratio ( Cos(5)
ğ	101			

## PROGRAM METHOD SELECTED REV\_REQ PROGRAM NAME C4-Pun Buthey Cherging

340	CUMULATIVE DISCOUNTED NET REMEPTES BROOD!	0	0	E	g	(30)	E	194)	E	12	n	tt.	0	th.	8	*	8	R	SI	28	101	8	110	801	8	901
1730	NA TAN DE MAN NA N	0	0	an	8	(22)	£	22	π	1.2	12	n	n	R	12	R	n	34	z	z	n	n	Ħ	(54)	91	7
(£2)	TOTAL BENEFITS MOON	0	D			<b>1</b>	q	Ş	Ţ	¥	8	ş	Ų	Q	4	9	4	4	4	4	ø	9	3	\$	¥	45
(11)	OTHER BENEFITS ROOS	0	0	0	0	0	D	0	0	0	0	ø	0	0	0	a	0	0	0	0	0	0	o	0	0	0
(64)	FEVENAE GAANS BIODD)	0	0	o	0	0	o	0	0	0	0	0	0	0	o	0	0	0	0	o	0	0	o	0	0	0
é	AVOIDED TAD BENEFITS BOXON	0	0	0	wit		13	13	2	13	2	D	13	23	c	13	*	*:	**	7.	2	15	15	15	22	16
ill)	AVOIDED GEN UNIT & FUEL BENEFITS \$(000)	0	0	-	**	•	8	R	R	R	R	R	R	R	R	n	12	22	12	12	R	n	n	R	R	2
(2)	T01AL C0817S	0	0	92	Ŕ	8	*	52	13	13	2	I	7	7	2	2	2	20	11	11	17	11	11	z	2	17
Æ	07hER COSTS \$7000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ŝ	HEVENA. LOSSES ACCOUNT	0	0	•	•	7	2	13	2	13	13	7	4	7	12	2	92	91	11	17	11	17	17	17	10	1.0
Ĩ	MCD/TM15 M000	0	0	۰	•	•	o	ø	o	0	G	0	0	0	0	0	0	0	0	0	0	0	0	•	•	•
(2)	COSTS BOOK	0	0	2	2	=	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	12	90
G	NCHEABED SUPPLY COSTS SUREN	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•
(1)	YEAR	1960	1987	1998	1999	2000	2001	2002	2003	2004	2002	3000	2007	2008	2009	2010	1102	2012	2013	2014	2015	2016	2017	2018	2019	3000

NOW	0	110	59	111	0	400	574	280	0	0
MPV	0	¥	E.	110	0	171	101	88	0	0
Oseo	north Rate				8 22 W					

3 5

Decount Rate Benefit Cost Rates (Cos(12) / Cos(7))

1,63