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Induction Lighting Retrofit

Facility/Project Name: Newport Lexus Facility Owner: _____
 Facility Address: Newport Beach where the 73 meets Mc Arthur Facility Manager: _____

Energy Savings 0.14 Electric kWh Rate:

Existing Fixtures										* Yearly hours calc. 12hrs day operation x 7 days x 52 week =4380 hrs		
Description	CRI	Life Span	PF	THD	VOLTS	Watts/Fixture	QTY	Hrs/Year	Total kW	Annual kWh	Annual Energy Costs	15yr Cycle Costs
Metal Halid Shoe Box	65	11000	0.89		277	862	180	4,380	155	679,601	\$ 95,144	\$ 1,427,162
									-			
									-			
									-			
Totals										679,601	\$ 95,144	\$ 1,427,162

Proposed Fixtures										NEW ENERGY COST PER YEAR		
Description	CRI	Life Span	PF	THD	VOLTS	Watts/Fixture	QTY	Hrs/Year	Total kW	Annual kWh	Annual Energy Costs	15yr Cycle Costs
Induction Shoe Box	85	100000	0.98	<10%	277	408	180	4,680	73	343,699	\$ 48,118	\$ 721,768
									-			
									-			
									-			
Totals										343,699	\$ 48,118	\$ 721,768

ENERGY COSTS SAVINGS	15 Years Total kWh Savings	Annual kWh Savings	Annual Energy Savings	15 Year Life Cycle Energy Savings
	5,038,524	335,902	\$ 47,026	\$ 705,393

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Saving Analysis for Induction Lighting

Facility/Project Name: Newport Lexus Facility Owner: _____
 Facility Address: Newport Beach where the 73 meets Mc Arthur Facility Management Co: 0

Labor Savings

Existing Lamps			Labor \$100/hr, 1 fixture per hour				
Bulb Type	Life Span/Hrs	Hrs/Year	Quantity	1 Bulb Change Cost	Aver. Labor Cost/1 Fixt	Total Annual Labor Costs	20yr Cycle Costs-Labor
Metal Halid Shoe Box	11000	4,380	180		\$100.00	\$6,000	\$120,000
0	0	-	0				
0	0	-	0				
0	0	-	0				
Totals						\$6,000	\$120,000

Proposed Fixtures							
Induction Bulb	Life Span/Hrs	Hrs/Year	Quantity	1 Bulb Change Cost	Aver. Labor Cost/1 Fixt	Yearly Labor Costs	15yr Cycle Costs-Labor
Induction Shoe Box	100000	-	180		0	\$0	\$0
0	0	-	0				\$0
0	0	-	0				\$0
0	0	-	0				\$0
Totals						\$0	\$0

TOTAL MAINTENANCE LABOR SAVINGS	Annual Maintenance Labor Savings		15 Year Life Cycle Maintenance Labor Saving
	\$6,000		\$120,000

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Saving Analysis for Induction Lighting

Facility/Project Name: Newport Lexus

Facility Owner: 0

Facility Address: Newport Beach where the 73 meets Mc Arthur

Facility Management Co: 0

Material Savings

Existing Lamps

Bulb Type	Life Span/Hrs	Hrs/Year	Quantity	Ballast and bulb Material Cost	Annual Maintenance Costs	20yr Cycle Maintenance Costs
Metal Halid Shoe Box	11000	4,380	180	\$120.00	\$7,200	\$144,000
0	0	-	0			\$0
0	0	-	0			\$0
0	0	-	0			\$0
Totals					\$7,200	\$144,000

Proposed Fixtures

Induction Bulb	Life Span/Hrs	Hrs/Year	Quantity	Main. Material Cost	Yr Maintenance Costs	20yr Cycle Main. Costs
Induction Shoe Box	100000	4,680	180	\$0.00	\$0	\$0
0	0	-	0			\$0
0	0	-	0			\$0
0	0	-	0			\$0
Totals	0	-	0			\$0
Totals					\$0	\$0

TOTAL MAINTENANCE MATERIAL SAVINGS	Total Annual Maintenance Material Savings	15 Year Life Cycle Total Maintenance Material Savings
	\$7,200	\$144,000

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Saving Analysis for Induction Lighting

Facility/Project Name: Newport Lexus

Facility Owner: _____

Facility Address: Newport Beach where the 73 meets Mc Arthur

Facility Manager: 0

Total Combined NET Savings for 15 Year Cycle by Year

15 Years Cycle	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7	Year 8	Year 9	Year 10
Total Net Savings by Year	-\$26,368.47	\$28,283.07	\$82,934.60	\$137,586.13	\$192,237.67	\$246,889.20	\$301,540.73	\$356,192.27	\$410,843.80	\$465,495.33
	Year 11	Year 12	Year 13	Year 14	Year 15					
	\$520,146.87	\$574,798.40	\$629,449.93	\$684,101.47	\$738,753.00					

Total Combined NET Savings for 15 Year Cycle by Type

15 Year Energy	\$555,773.00
15 Year Labor	\$120,000.00
15 Year Material	\$144,000.00
Total NET SAVINGS	\$819,773.00

Total Costs of Retrofit and Payback Years

	Cost Per Fixture	Total Cost of Fixtures		Labor Cost Per Fixture	Total Installation Labor
39400	\$504.00	\$90,720.00	Fixture 1	\$85.00	\$15,300.00
epact 2005		\$0.00			
sec 179D		\$0.00			
utility rebate	-\$25,000.00	-\$25,000.00			
PRICES GOOD FOR 40 DAYS		\$65,720.00	labor \$100 /hr, 1.65 fixture /hour		\$15,300.00
Total Project Cost (Fixtures + Labor)		\$81,020.00	Project Payback in Years		1.98

Summary of Savings

Facility/Project Name:	Newport Lexus
Facility Address:	Newport Beach where the 73 meets Mc Arthur
Facility Owner:	0
Facility Management Co:	0

Life Cycle kWh Savings	5,038,524	Simple Pay Back in Years <h1 style="font-size: 2em;">1.98</h1>
Life Cycle Energy Cost Savings	\$705,393.36	
Life Cycle Labor Cost Savings	\$120,000.00	
Life Cycle Material Cost Savings	\$144,000.00	
Life Cycle Gross Cost Savings	\$819,773.00	
Life Cycle Net Cost Savings		

Summary of Benefits

Life cycle air pollution reduction (lbs of CO ₂)	7,205,089
Life cycle air pollution reduction (number of cars removed from the road)	6,233
Life cycle air pollution reduction equivalence (acres of forest)	9,825