







PENSION UAL ADVANCE FUNDING OPTIONS

<u>Options Analyzed:</u>

- 1. 15 Year Fresh Start
- 2. \$4 million one-time Advance Funding Plan
- 3. \$2 million per year Advance Funding Plan (2 years)
- 4. \$1 million per year Advance Funding Plan (4 years)

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#	Option Description	Savings Potential*	Pro	Con
1	15 Year Fresh Start	 UAL savings of \$6.08 million NPV savings of \$2.87 million 	Fastest UAL repayment termHighest NPV savings	 Lack of future flexibility Near-term payment increases Savings are "back-loaded"
2	AFP- \$4 million (1 time)	 UAL savings of \$9.76 million NPV savings of \$2.83 million 	 Near-term savings gradually ramp up Substantially same NPV savings as Option 1 	 Near-term savings minimal Additional market exposure
3	AFP - \$2 million (2 years)	 Total savings of \$9.61 million NPV savings of \$2.78 	 Near-term savings gradually ramp up Ability to adjust plan in future 	 Near-term savings minimal Lower NPV savings than 2 Additional market exposure
4	AFP - \$1 million (4 years)	 UAL savings of \$9.06 million NPV savings of \$2.44 	 Less near-term market exposure Ability to adjust plan in future 	 Lowest NPV savings





- UAL Unfunded Accrued Liability. Difference in total District pension financial assets with CalPERS versus present value of future pension benefits accrued and owed in future by District. Typically result of changes in CalPERS actuarial assumptions and / or adverse investment returns.
- UAL Amortization or Payment Schedule. If a public agency has a UAL, CalPERS produces a payment schedule requiring annual payments to reduce the UAL to zero over time (typically 20-30 years). Payment schedules lag actual UAL.*
- UAL Amounts Reported with lag*. Most current official value from CalPERS came out fall of 2017, reporting a value as of June 30, 2016, and updated UAL projections already differ.

FIELDMAN ROLAPP *Per CalPERS methodology and policies, plan values and costs rendered to public agencies occur with a 2 year lag.



PRESENTATION DISCLAIMERS

- Information regarding the District's existing unfunded actuarial liability contained herein is based on the District's June 30, 2016 valuation report as of August, 2017 from CalPERS
- Scenarios and savings were generated as per GovInvest financial software / website, a customized pension analysis service the District subscribes to
- Certain assumptions, including future rate of return changes and CalPERS investment experience for FY2017, have been incorporated by GovInvest which were not reflected in the District's August 2017 valuation report

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Typical Rate Structure: General considerations

- No single rate structure is best for all agencies
- Each structure is not viewed equally by all stakeholders
- Best structure is individual to each agency, based on:
 - Costs incurred to provide water to customers
 - Customer usage patterns
- Structures generally consist of two components:
 - Fixed (meter sized based charge)
 - Variable (commodity based rate)

Typical Cost Structure: Costs are largely fixed or "sticky", with the exception of variable water purchases

- Operating Expenses
 - Salary & Benefits
 - Professional Services
 - Materials & Supplies
 - Depreciation/Amort
 - Debt Payments
 - Utilities
 - Water Purchases

 Additionally, many agencies create a clearer cost nexus by implementing pass-through charges for water supply and power costs















Statistical GPCD analysis reveals key usage characteristics (FY 2017)





	Equity Perception	Conservation	Easy to Understan <u>d</u>	Administrative Ease	Revenue Stability	Cost Nexus
Flat Rate	"Water's free, pay flat fee for distribution"	No	Yes	Yes	100%	Doesn't address water purchases
Uniform Rate	"Use more pay more"	Yes (moderate)	Yes	Yes	Somewhat	Yes, but may not reflect higher costs at greate usages
Declining Tiers	"Economies of Scale"	No	Easy	Easy	Somewhat	Yes, if water resources are not limited
nclining Tiers	"Dis-economies of Scale"	Yes	Easy	Easy	Limited	Yes, if based on systen design and reasonableness
Budget Based (Tiers)	"Need more get more"	Yes (Efficiency)	Communication Necessary	Expensive and Time intensive	Limited	Yes, if efficiency can be appropriately priced
Meter Based (Tiers)	"Tier size should be proportional to meter size"	Yes (Efficiency)	Easy	Easy	Somewhat	Yes, if based on systen design and reasonableness



	Premise	Understand	Ease	Revenue Stability	Cost Nexus
lume Management (Drought) Rates	Temporary Surcharge that can be added to the volumetric rate at times of lower demands/sales	Yes	Yes	Limits potential revenue shortfalls	Yes
Pass-Through Rates	Costs from a 3 rd party can be directly passed-on to customers	Yes	Yes	Increases transparency and mitigates need to forecast 3 rd party increases	Yes
ipply Management Rates	Separate rate and reserve fund to moderate variability in sources of supply	Yes	Yes	Supports greater revenue and rate stability	Yes



