SUMMARY OF CONSULTING PENSION ACTUARY'S RECOMMENDATIONS REGARDING ACTUARIAL VALUATION ASSUMPTIONS FOR UCRP

Economic Assumptions

Assumption	Description	Recommendation
Inflation	Future increases in the Consumer Price Index (CPI), which	Maintain rate at 2.50 percent per annum
	drives investment returns and active member salary	
	increases as well as cost-of-living adjustments (COLA).	
Investment Return	Estimated average future net rate of return on current	Maintain rate at 6.75 percent per annum
	and future assets of UCRP as of the valuation date. This	
	rate is used to discount liabilities.	
Administrative	Fees for administrative, legal, accounting and actuarial	Increase from 0.40 percent of covered payroll to 0.45
Expenses	services, as well as routine costs for printing, mailings,	percent of covered payroll
	computer-related activities and other functions carried	
	out for Plan operation are paid from Plan assets.	
Salary Increases	Increases in the salary of a member between the date of	Inflation: see above
	the valuation to the date of separation from active	Real ATB: Maintain at 0.75 percent
	service. It includes components of inflation, real "across	• M-P: Increases for both Faculty and Staff/Safety
	the board" (real ATB) salary increases and merit and	members
	promotion (M-P) increases in salary.	

SUMMARY OF CONSULTING PENSION ACTUARY'S RECOMMENDATIONS REGARDING ACTUARIAL VALUATION ASSUMPTIONS FOR UCRP

Description Assumption Recommendation **Mortality Rates** Estimates the probability of dying at each age. Mortality Pre-Retirement – Pub-2010 Teacher Employee Amountrates are used to project life expectancies. Weighted Above-Median Mortality Table, table rates decreased by 10% for males and decreased by 5% for females, projected generationally with the twodimensional mortality improvement scale MP-2021 Healthy Retirees – Pub-2010 Teacher Healthy Retiree Amount-Weighted Above-Median Mortality Table, projected generationally with the two-dimensional mortality improvement scale MP-2021. For Faculty, table rates are decreased by 15% for males and decreased by 5% for females. For Staff & Safety, table rates are not adjusted for males and increased by 5% for females. Beneficiaries in Pay Status as of Valuation – Pub-2010 Contingent Survivor Amount-Weighted Above-Median Mortality Table, table rates are not adjusted for males and decreased by 10% for females, projected generationally with two-dimensional mortality improvement scale MP-2021. Beneficiaries not in Pay Status as of Valuation – When calculating the liability for the continuance to a beneficiary of a surviving member, the Staff & Safety Healthy Retiree mortality tables will be used for beneficiary mortality both before and after the expected death of the Faculty, Staff, or Safety member. Upon the actual death of the member (i.e. for all beneficiaries in pay status as of the valuation date), the

Non-Economic Assumptions

SUMMARY OF CONSULTING PENSION ACTUARY'S RECOMMENDATIONS REGARDING ACTUARIAL VALUATION ASSUMPTIONS FOR UCRP

		Contingent Survivor mortality tables as stated above will be used.
		Disabled Retirees – Pub-2010 Non-Safety Disabled Retiree Amount-Weighted Mortality Table, table rates are not adjusted for males and decreased by 5% for females, projected generationally with two-dimensional mortality improvement scale MP-2021
		Members who have "crossed over" will continue to be valued using disabled mortality tables
		Separate tables for males and females
Mortality for Actuarial	Mortality table used for converting Plan benefits under	Use "static" version of mortality table that approximates
Equivalence Basis	one form of payment to an actuarially-equivalent amount	the generational mortality table recommended for
	under a different form of payment.	healthy retirees and beneficiaries shown above
Disability Incidence	Estimates the probability of becoming disabled at each	Overall decreases in the rates and change to unisex based
Rates	age.	disability rates
Termination Rates	Estimates the probability of leaving active UCRP membership after attaining each level of service credit.	Overall decreases in the rates
Retirement Rates for	Estimates the probability of retirement at each age at	1976 Tier Faculty:
Members Retiring	which members are eligible to retire, given attainment of	 < 20 years of service: Increases
from Active Membership	that age.	 20+ years of service: Increases
		1976 Tier Staff:
		 < 20 years of service: Decreases
		 20+ years of service: Increases
		 Extend the retirement rates from age 75 to age 80
		Safety Members – Decreases and extend the retirement rates from age 65 to 67.

SUMMARY OF CONSULTING PENSION ACTUARY'S RECOMMENDATIONS REGARDING ACTUARIAL VALUATION ASSUMPTIONS FOR UCRP

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		2013 & 2016 Tier Faculty: Increases
		2013 & 2016 Tier Staff: Increases and extend the retirement rates from age 75 to 80.
		Modified 2013 Tier Staff:
		 < 20 years of service: Increases
		• 20+ years of service: Decreases
		• Extend the retirement rates from age 75 to age 80
		Adjust retirement timing to assume members will retire at the middle of the year on average.
		Reduce the assumed Inactive COLA applied to new retirements from active status from 2 percent to 1 percent to reflect the assumption above regarding retirement timing.
Retirements for	Inactive vested members assumed to retire at a fixed age.	2013 & 2016 Tier Members – Maintain at age 63
Members Retiring		
from Inactive		Maintain at age 60 for all other inactive vested members
Membership		

SUMMARY OF CONSULTING PENSION ACTUARY'S RECOMMENDATIONS REGARDING ACTUARIAL VALUATION ASSUMPTIONS FOR UCRP

Assumption	Description	Recommendation
Eligible Survivor	Assumptions regarding how many non-retired members	For actives and deferred vested members, maintain the
Assumptions	will have eligible survivors at retirement, the age and	percent married at retirement assumption at 80 percent
	gender of the eligible survivor(s) and the number of eligible survivors.	for males and 60 for females.
		Maintain the spouse age difference and gender
		assumption as follows:
		 Male Members – Three years older than their female spouses
		• Female Members – Two years younger than their male
		spouses
Assumption for	Estimated proportion of unused sick leave at separation	Maintain the current sick leave conversion rates
Unused Sick Leave	converted to service credit.	
Converted to Service		
Credit		
Lump Sum Cashout	Rate at which retirement-eligible members opt to receive	Overall decreases in the rates
(LSC) Take-Rate	a LSC in lieu of monthly retirement income.	
Unknown Data for	Assumed demographic data for members with unknown	For unknown gender assume all members with unknown
Members	information.	gender at the Lawrence Berkeley National Laboratory are
		male, and all others are female
Future Benefit	Amount of Service Credit projected to be earned by	Maintain the current assumption that all active members
Accruals	active members in years after the valuation date.	earn one year of Service Credit each year in the future

The recommendation for any current assumption not listed here is to maintain the current assumption for the July 1, 2023 valuation.