

Estimated Actuarial Liability for Worker's Compensation  
for Non-CFO Act Entities FY 2022  
(Unaudited)

In FY 2021, the methodology for billable projected liabilities was revised to include, among other things: (1) an algorithmic model that relies on individual case characteristics and benefit payments (the FECA Case Reserve Model) and (2) incurred but not reported claims were estimated using the patterns of incurred benefit liabilities in addition to those of payments. The FY 2021 methodology also included adjustments to normalize the levels of payments in chargeback year 2021 because payment levels in 2021 were not representative of what could be expected to occur absent the pandemic. The FY 2022 methodology remained the same, except it omitted the pandemic-related adjustments to normalize the levels of payments.

Attached is a calculator for estimating a FECA actuarial liability (unaudited) for an entity not specifically listed in the results of the FECA actuarial model, based on an extrapolation from the actual charges experienced recently by the Agency. This procedure is not an allocation of a listed liability amount – the total liabilities calculated for an agency's sub agencies would not necessarily add to the amount listed for the Agency as a whole. It is, however, a way to calculate a reasonable estimate of liability for an unlisted entity.

For both compensation and medical, the calculation takes the amount of benefit payments for the entity over the last 12 quarters, and calculates the annual average of payments. Compensation and medical payments can be found in the chargeback reports that are issued quarterly to the agencies by FECA.

The two average payment amounts are then multiplied by the respective compensation and medical liability to benefits paid ratios from the whole FECA program for the past three years, which have been entered into the spreadsheet already. These ratios vary from year to year as a result of economic assumptions and other factors but, roughly speaking, the model calculates an overall liability of about 12.43 times the annual payments. For your reference, we have provided the calculations for how the overall LPR of 12.43 was derived. [See Table: Calculation of Liability to Payment Ratios (LPRs)]

To reflect the variability of the situations at different agencies, each agency should exercise judgment in selecting the amount to record as its actuarial liability, whether it is the amount from the model based on 100 percent of LPR, the amount based on LPR decreased by 10 percent, or the amount based on LPR increased by 10 percent. Factors to consider include: the trend of payments over the past few years and any known recent variations in the incidence or nature of new FECA claims. Thus, an agency with a history of declining payments or a declining number of employees might select a lower estimate as the most reasonable, while an agency with an unusually increasing amount of payments might select a higher estimate as most appropriate. Similarly, an agency that has had a recent increase in new claims might use a higher estimate. Young agencies will often fall into the latter two categories and should choose the higher estimate.

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This calculator is intended for situations where the FECA actuarial liability is immaterial to the agency's financial statements. If that is not the case, management should consider adopting a more exhaustive actuarial model approach to estimating this liability.

As a last resort, for agencies with very small numbers of claims, a census driven methodology may be more appropriate. For instance, management might evaluate each claim: consider the nature of the injury, the age of the claimant, estimated duration, and other data to arrive at an estimate of expected payments by case. Management would then have to consider whether the claims history is sufficient to provide a basis by which to measure incurred but unreported claims. As a rule, this should not be done without first considering the estimate using this model.

The American Rescue Plan Act, P.L. 117-2, section 4016, "Eligibility for Workers' Compensation Benefits for Federal Employees Diagnosed with COVID-19," mandated that the FECA Special Benefits Fund assume an **unreimbursed** liability (i.e., a liability that is not chargeable to the agencies) for approved claims of certain covered employees for injuries proximately caused by exposure to the novel coronavirus that causes COVID-19 (or another coronavirus declared to be a pandemic by public health authorities) while performing official duties during the covered exposure period. Pursuant to section 4016, these claims must be accepted on or after March 12, 2021 and through September 30, 2030 and cover benefits for disability compensation and medical services and survivor benefits. Accordingly, the methodology for the Workers Compensation Liability Calculator for 2022 properly omits section 4016 future benefits.

Procedure for using the attached calculator:

1. Enter the medical and benefit payment totals for the agency from the quarterly or annual chargeback reports received from FECA.
2. Change the print heading to show the Agency name (page setup).
3. Print out the calculator.
4. Evaluate the payment and case history of the agency to choose the appropriate liability estimate to record as the Agency liability.
5. Document the decision process in step 4 with appropriate memos and analysis.
6. Record the liability.

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<b>Workers Compensation Liability Calculator for 2022</b>					
<b>Template for User Input Data</b>					
Users enter benefit payment data in the green shaded cells below					
Parameters used in the calculation are displayed in the purple shaded cells					
TYPICAL DATA SOURCE	PERIOD	MEDICAL BENEFIT AMOUNT	COMPENSATION BENEFIT AMOUNT	TOTAL BENEFIT AMOUNT (COMP. + MED.)	
Summary Chargeback Report	FY 2020	\$ 110,000.00	\$ 250,000.00	\$ 360,000.00	
Summary Chargeback Report	FY 2021	\$ 120,000.00	\$ 260,000.00	\$ 380,000.00	
Summary Chargeback Report	FY 2022	\$ 130,000.00	\$ 270,000.00	\$ 400,000.00	
<b>Total charges</b>		<b>\$ 360,000.00</b>	<b>\$ 780,000.00</b>	<b>\$ 1,140,000.00</b>	
Number of data quarters included		12	12	12	
<b>Average of annual benefit payments</b>		<b>\$ 120,000.00</b>	<b>\$ 260,000.00</b>	<b>\$ 380,000.00</b>	

<b>LIABILITY DETERMINATION UTILIZING FECA ACTUARIAL MODEL LIABILITY TO BENEFITS PAID RATIOS</b>					
Calculated liability estimates are displayed in the blue-gray shaded cells below					
		MEDICAL LIABILITY	COMPENSATION LIABILITY	TOTAL LIABILITY (COMP. + MED.)	PERCENT CHANGE FROM OVERALL
Upper estimate					
Liability-to-Payment Ratios		10.60	14.94		10%
Liability		\$ 1,272,348.63	\$ 3,885,399.30	\$ 5,157,747.93	
<b>Overall model estimate (Primary):</b>					
Liability-to-Payment Ratios		9.64	13.59	12.43	0%
Liability		<b>\$ 1,156,680.57</b>	<b>\$ 3,532,181.18</b>	<b>\$ 4,688,861.76</b>	
Lower estimate					
Liability-to-Payment Ratios		8.68	12.23		-10%
Liability		\$ 1,041,012.51	\$ 3,178,963.07	\$ 4,219,975.58	

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### Calculation of Liability to Payment Ratios (LPRs)

CBY	Medical Benefits	Medical Liability	Medical LPR	Comp. Benefits	Comp. Liability	Comp. LPR	Overall LPR
2020	788,469,027	7,934,759,721	10.06	1,835,723,296	24,821,192,293	13.52	12.48
2021	769,998,873	7,344,090,900	9.54	1,801,846,210	25,330,766,100	14.06	12.70
2022	701,209,063	6,502,186,399	9.27	1,838,801,747	24,246,255,043	13.19	12.11
<b>Summary</b>	2,259,676,963	21,781,037,020	9.64	5,476,371,253	74,398,213,436	13.59	12.43

Benefit amounts are in current dollars from billable claims

Liability amounts are in discounted current dollars for billable claims