

Tuesday, August 10, 2021

#1 – American Rescue Plan Act of 2021
#2 – One Participant DC Cash Balance Plan Proposal
#3 – ASC-715 Basics in ASC
#4 – Participant Termination/Optional Forms
#5 – DB Pattern Plans Overview
#6 – Extended History
#7 – Average Compensation Overview
#8 – Traditional Benefit Formula Coding

#9 – Participant Reconciliation with Grids and Formulas



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#1 – American Rescue Plan Act of 2021

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#4 – Participant Termination/Optional Forms

#5 – DB Pattern Plans Overview

#6 – Extended History

#7 – Average Compensation Overview

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#1 – American Rescue Plan Act of 2021

Topic Roadmap

- A. Overview of the American Rescue Plan Act of 2021
- B. ASC Programming and Reporting for Extended Amortization
- C. ASC Programming and Reporting for Funding Minimum Segment Rate Relief
- D. References

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#1 – American Rescue Plan Act of 2021

A. Overview of the American Rescue Plan Act of 2021

- ARP 2021 passed March 11, 2021, with 2 significant pension law changes for single employer DB plans
 - Extended Amortization
 - Change amortization period for new shortfall amortization payments from 7 years to 15 years
 - Set all prior shortfall amortization balances and payments to zero
 - Default Effective Date For plan years beginning after December 31, 2021
 - Early Opt-in Option Plan sponsors can elect to use the Extended Amortization for plan years beginning after December 31, 2018
 - o Minimum Funding Segment Rate Relief
 - Adds a 5% floor to the 25-year average calculation for the tiered minimum segment rates
 - Changes the corridor that applies to the calculated average for the tiered minimum segment rates
 - Default Effective Date For plan years beginning after December 31, 2019
 - Opt-out Option Plan sponsors can elect to defer the use of the revised minimum funding segment rates until the plan year beginning after December 31, 2021

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#1 – American Rescue Plan Act of 2021

- Extended Amortization Plan Specification fields on Values \ VALPPA screen
 - o Storage for up to 15 years of Shortfall Amortization Payments (SAPs)
 - o ARP 21 Relief 1st Val Date input field
 - Use this field for plans using the Early Opt-in Option

EW	Values for PPA						
Specifications General Second Funding Costs Costs Costs Costs Contractive BASISLY HISTORY PROJBENF ACCRBENF COMP PROJBENF ACCRBENF VUREPA VALFASB VALFASB VALFASB VALFASB VALFASB COSTS EXPVAL EXPVAL	Current year FTAP T Last year FTAP 2008 FTAP 2008 FUND %-A 2009 FUND %-A 2009 FUND %-A Prior funded percent for 43 Shortfall Balance for Min Shortfall Payment for Min	93.11 82.30 AVA/FT AVA/FT 30(f)(3) 93.11 nimum 775.752	53	ARP21 Rel Current	Effective Interest Rate Calc'd Effective Interest Rate Prior Effective Interest Rate Amortiz ief 1st Val Date 124,409.53 51,265.00 3 51,265.00 3 11	5.94 4.79)

Plan Specifications: Values \ VALPPA screen

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#1 – American Rescue Plan Act of 2021

- How to Activate ASC Programming for Extended Amortization
 - For Plans using the Default Effective Date (PYB after 12/31/2021)
 - No entries or changes to Values \ VALPPA needed
 - Run Calculations > Valuation
 - PYB before 1/1/2022 will be calculated using the 7-year amortization period.
 - For the first PYB after 12/31/2021, all prior SAPs will be set to zero and removed from the Values \ VALPPA screen
 - Starting with the first PYB after 12/31/2021, the current shortfall amortization balance, if any, will be amortized using a 15-year period and stored in the Current Amortization Payment field in Values \ VALPPA screen

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#1 – American Rescue Plan Act of 2021

- How to Activate ASC Programming for Extended Amortization (Continued)
 - o For Plans using Early Opt-in Option
 - Enter Early Opt-in valuation date in ARP21 Relief 1st Val Date
 - IF the ARP21 Relief 1st Val Date is *before* the current Valuation Date
 - Verify any prior SAPs stored already use the 15-year amortization period. There should be no SAPs stored that use the 7-year amortization period.
 - During Calculations > Valuation:
 - Prior SAPs, if any, are kept in the Values \ VALPPA screen
 - Current shortfall amortization balance, if any, will be amortized using a 15-year period and stored in the Values \ VALPPA screen
 - IF the ARP21 Relief 1st Val Date is equal to the current Valuation Date
 - No other action needed on the Values \ VALPPA screen
 - During Calculations > Valuation:
 - All prior SAPs, if any, are set to zero and removed from the Values \ VALPPA screen
 - Current shortfall amortization balance, if any, will be amortized using a 15-year period and stored in the Values \ VALPPA screen
 - IF the ARP21 Relief 1st Val Date is <u>after</u> the current Valuation Date
 - Verify any prior SAPs stored still use the 7-year amortization period.
 - During Calculations > Valuation:
 - Prior SAPs, if any, are kept in the Values \ VALPPA screen
 - Current shortfall amortization balance, if any, will be amortized using a 7-year period and stored in the Values \ VALPPA screen

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#1 – American Rescue Plan Act of 2021

- How to Activate ASC Programming for Extended Amortization (Continued)
 - For Plans using Early Opt-in Option (Continued)

Description of Opt-in Scenarios	ARP21 Relief 1 st Val Date is <u>before</u> the current Valuation Date	ARP21 Relief 1 st Val Date is <u>equal to</u> the plan's current Valuation Date	ARP21 Relief 1 st Val Date is <u>after</u> the current Valuation Date
			Valuation Date
Plan Maintenance in Values \ VALPPA screen	 Prior SAPs use 15- year amortization period 	No action needed	 Prior SAPs use 7- year amortization period
Calculations > Valuation Results	 Prior SAPs retained Current SAP, if any, uses 15-year amortization period 	 Prior SAPs set to zero Current SAP, if any, uses 15-year amortization period 	 Prior SAPs retained Current SAP, if any, uses 7-year amortization period

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#1 – American Rescue Plan Act of 2021

B. ASC Programming and Reporting for Extended Amortization (Continued)

• How to Activate ASC Programming for Extended Amortization (Continued)

Calculations > Valuation Results	ARP21 Relief 1 st Valuation Date in 2019	ARP21 Relief 1 st Valuation Date in 2020	ARP21 Relief 1 st Valuation Date in 2021	ARP21 Relief 1 st Valuation left blank
Valuation Date in 2019	 Old Bases Set to Zero 15-year period used for new Current Base 	 Old Bases Maintained 7-year period used for new Current Base 	 Old Bases Maintained 7-year period used for new Current Base 	 Old Bases Maintained 7-year period used for new Current Base
Valuation Date in 2020	• 15-year period used for new Current Base	 Old Bases Set to Zero 15-year period used for new Current Base 	 Old Bases Maintained 7-year period used for new Current Base 	 Old Bases Maintained 7-year period used for new Current Base
Valuation Date in 2021	• 15-year period used for new Current Base	• 15-year period used for new Current Base	 Old Bases Set to Zero 15-year period used for new Current Base 	 Old Bases Maintained 7-year period used for new Current Base
Valuation date in 2022	• 15-year period used for new Current Base	• 15-year period used for new Current Base	• 15-year period used for new Current Base	 Old Bases Set to Zero 15-year period used for new Current Base

• For Plans using Early Opt-in Option (Continued)

Color	ARP21 Relief 1 st Val Date	ARP21 Relief 1 st Val Date	ARP21 Relief 1 st Val Date
Кеу	is <u>before</u> the current	is <u>equal to</u> the plan's	is <u>after</u> the current
	Valuation Date	current Valuation Date	Valuation Date

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#1 – American Rescue Plan Act of 2021

- ASC Reporting for Extended Amortization
 - When the 15-year method applies:
 - Actuarial Certification will refer to the American Rescue Plan Act of 2021
 - Shortfall Amortization Report will document the 15-year method in the Amortization Method column and remaining future installments based on the 15-year amortization method in the Number of Future Installments column
 - Short Plan Year report will reflect the 15-year method as well, when applicable

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#1 – American Rescue Plan Act of 2021

B. ASC Programming and Reporting for Extended Amortization (Continued)

- ASC Reporting for Extended Amortization (Continued)
 - o Sample Plan's 1st year Shortfall Amortization report with Extended Amortization

	•	e Pension Plan cue Plan Act of 202	1	
	Plan Year: 9/	ll Amortization 1/2020 to 8/31/2021 n Date: 9/1/2020		
amortization payments. over a fifteen year perio	status below 100%, the pla A plan's amortization pay od. Shortfall amortization p (31/2019 were reduced to ze	ments are calculated to pa ayments, if any, for all pl	y down the plan's underf	unding
Valuation Data	Amortization <u>Method</u>	Number of Future <u>Installments</u>	<u>Installment</u>	Value of Future
Valuation Date				Installment
<u>valuation Date</u> 09/01/2020 Total	15-year	15	\$9,098 \$9,098	<u>Installment</u> <u>\$96,909</u> \$96,909

• Sample Plan's 2nd year Shortfall Amortization report with Extended Amortization

	•	Pension Plan cue Plan Act of 2021	l	
	Plan Year: 9	11 Amortization /1/2021 to 8/31/2022 n Date: 9/1/2021		
If the plan has a funde	ed status below 100%, the pla			shortfall
	s. A plan's amortization payr iod.	nents are calculated to pa	y down the plan's under	funding
amortization payment	iod.	Number of	y down the plan's under	Value of
amortization payment			y down the plan's under Installment	-
amortization payment over a fifteen year per <u>Valuation Date</u>	iod. Amortization <u>Method</u>	Number of Future <u>Installments</u>	Installment	Value of Future <u>Installmer</u>
amortization payment over a fifteen year per <u>Valuation Date</u> 09/01/2020	iod. Amortization <u>Method</u> 15-year	Number of Future <u>Installments</u> 14	<u>Installment</u> \$9,098	Value of Future <u>Installmen</u> \$93,858
amortization payment over a fifteen year per <u>Valuation Date</u>	iod. Amortization <u>Method</u>	Number of Future <u>Installments</u>	Installment	Value of Future <u>Installmer</u>

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#1 – American Rescue Plan Act of 2021

- Using ASC Table Maintenance Function Calc PV Factors to check Current SAP
 - o Plan Data
 - Shortfall Balance for Minimum (Values \ VALPPA screen) 96,909
 - This is the first year of ARP2021, so no reduction for prior SAP present values needed
 - Minimum Funding Segment Rates (Funding \ PPAFASMP screen) 4.75% / 5.50% / 6.27%
 - Launch Table Maintenance > Functions > Calc PV Factors
 - Use any mortality table
 - Enter tiered segment rates
 - Enter any Current and Retirement age, but they must be equal
 - Enter 15 in Period Certain
 - Check Certain Only option
 - Check Annual Rate option
 - Calculate PVF Result = 127.8137 (Annual)
 - o Current SAP Calculation
 - Shortfall Balance for Minimum / [Calc PVF Result (Annual) / 12]
 - 96,909 / [127.8137 / 12] = <u>9,098.46</u>

Post-Retirement Mortality Primary NONE Contingent	Ages Print a table of present value factors Current Age 65 Ending Age Spouse's Age @ Retirement
Pre-Retirement	Early Retirement Age
Mortality Disability Disabil	Options Mortality Projection Period Certain 15 Certain Only Type Percent to Survivor Prim. Table COLA Out Post-Ret Load Val Year Initial Benefit 10 Maximum Benefit 10 Annual Rate Initial Rate

Table Maintenance: Functions \ Calc PV Factors

Tuesday, August 10, 2021

#1 – American Rescue Plan Act of 2021

- Using ASC Table Maintenance Function Calc PV Factors to check Value of Future Installments for prior SAPs
 - o Plan Data
 - 1 yr ago SAP (Values \ VALPPA screen) 9,098.46
 - Number of Future Installments 14
 - Minimum Funding Segment Rates (Funding \ PPAFASMP screen) 4.50% / 5.25% / 6.00%
 - Launch Table Maintenance > Functions > Calc PV Factors
 - Use any mortality table
 - Enter tiered segment rates
 - Enter any Current and Retirement age, but they must be equal
 - Enter 14 in Period Certain
 - Check Certain Only option
 - Check Annual Rate option
 - Calculate PVF Result = 123.7901 (Annual)
 - Value of Future Installment for 1 yr ago SAP
 - 1 yr ago SAP x Calculate PVF Result (Annual) / 12
 - 9,098.46 x 123.7901 /12 = <u>93,858</u>

Post-Retirement Mortality Primary NONE Contingent	Ages Print a table of present value factors Current Age 60 Ending Age Spouse's Age @ Retirement
Pre-Retirement	Ending Age Early Retirement Age
Mortality	Options Mortality Projection Period Certain 14 Type Certain Only Prim. Table Percent to Survivor Prim. Table COLA Val Year Post-Ret Load Function Initial Benefit 10 Maximum Benefit 10 Annual Rate 123.7901

Table Maintenance: Functions \ Calc PV Factors

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#1 – American Rescue Plan Act of 2021

C. ASC Programming and Reporting for Funding Minimum Segment Rate Relief

- Minimum Funding Segment Rates in Table Maintenance \ Defined Benefit \ Segment Rates
 - o HATFA rates (BBA 2015), the 'F' series tables, will phase out after December 31, 2021
 - ARP21 rates are the 'G' series tables
 - YYYYMMG0 ARP21 Funding Rates for Plan Years beginning in 2020
 - YYYYMMG1 ARP21 Funding Rates for Plan Years beginning in 2021
 - YYYY is the Year and MM is the month of publication

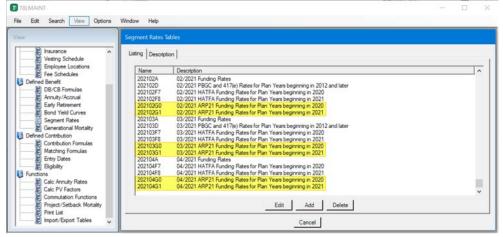


Table Maintenance: Defined Benefit \ Segment Rates

Tuesday, August 10, 2021

#1 – American Rescue Plan Act of 2021

C. ASC Programming and Reporting for Funding Minimum Segment Rate Relief (Continued)

- How to Activate ASC Programming for Minimum Funding Segment Rate Relief
 - For Plans using the Default Effective Date (PYB after 12/31/2019)
 - Select ARP 2021 Minimum Funding Segment Rates in the Funding \ PPAFASMP screen
 - Run Calculations > Valuation
 - Check 'Calculate Effective Interest Rate (EIR)' option
 - Run Calculations > Actuarial > Quarterly Interest to reflect updated EIR
 - For Plans using Opt-Out Option (PYB in 2020 or 2021)
 - Select BBA 2015 Minimum Funding Segment Rates in the Funding \ PPAFASMP screen
 - Run Calculations > Valuation
 - Check 'Calculate Effective Interest Rate (EIR)' option
 - Run Calculations > Actuarial > Quarterly Interest to reflect updated EIR

		Rates Month/Year
LANSPEC D21:0055 Edit Search View Option	a Window Help	01/201 3.32 4.79 5.47 BBA 2015 12/2020 3.32 4.79 5.47 BBA 2015 11/2020 3.32 4.79 5.47 BBA 2015 11/2020 3.32 4.79 5.47 BBA 2015 10/2020 3.32 4.79 5.47 BBA 2015
Specifications General Funding PrintDASMP FUNDASMP	PAA Funding Assumptions Tiered Rates Min Yield Curve No Min Q Prior Prior Interest Rate 1 1.45 2.71 3.32 3.64 Number of Years 5 Interest Rate 2 2.85 3.75 4.79 5.21 Number of Years 15 Interest Rate 3 3.52 4.21 5.47 5.94 Curve Q Prior Curve Q Q	Oldson Oldson<
	Apply MAP-21for 2012 No At Risk Loads Percent S per Part Loading Factor Apply \$ Load only when Indiv. Funding Target >0 No	Projected Mortality Mortality Projection 0 - Static Viage Base CPI OK Cancel

Plan Specifications: Funding \ PPAFASMP screen

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#1 – American Rescue Plan Act of 2021

C. ASC Programming and Reporting for Funding Minimum Segment Rate Relief (Continued)

- ASC Reporting for Minimum Funding Segment Rate Relief
 - When the ARP 2021 Minimum Funding Segment rates are selected, the Actuarial Certification will refer to the American Rescue Plan Act of 2021
 - The Summary of Actuarial Assumptions, PPA Funding Values, and SB Information reports will reflect the ARP 2021 rates selected.

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#1 – American Rescue Plan Act of 2021

D. References

• FAQs

ASC	Client S	Support Ce	nter	Search ASC FAQs	P
NEW INCIDENT	VIEW INCIDENTS	SEARCH	REPORTS	FILE MANAGER	BILLING
FAQs A	SC				
+ Actian SC + Daily Val + DC - Con	- DV Direct				
+ DC - Rec - Defined E	ordkeeping				
FAQ 910:	PPA Shortfall	Amortiza	tion Base	- Funding Relie	ef for ARP
<u>FAQ 833:</u>	PPA/ARP Sho	rtfall Payr	nent Calci	ulation using S	egment R
<u>FAQ 906:</u>	PPA/ARP Sho	rtfall Payr	nent Calci	ulation using Y	<mark>ield Curve</mark>
<u>FAQ 977:</u>	Segment Rate	es - HATFA	A/BBA15//	ARP21	

- DB Reference Manual
- Online Help
 - o <F1> on keyboard to access online help for each employee or plan specifications field
- Update from Actuaries article
 - o Update from Actuaries: American Rescue Plan Act of 2021



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#1 – American Rescue Plan Act of 2021

#2 – One Participant DC Cash Balance Plan Proposal

#3 – ASC-715 Basics in ASC

#4 – Participant Termination/Optional Forms

#5 – DB Pattern Plans Overview

#6 – Extended History

#7 – Average Compensation Overview

#8 – Traditional Benefit Formula Coding

#9 – Participant Reconciliation with Grids and Formulas

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#2 – One Participant DC Cash Balance Plan Proposal

Topic Roadmap

- A. Overview
- B. Case Preparation
- C. Budget Calculations
- D. Analysis and Reporting
- E. References

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#2 – One Participant DC Cash Balance Plan Proposal

A. Overview

- First stage development of budget solving proposal programming and reports for cash balance/DC combo plans.
- Advantages
 - Incorporates minimum required, maximum deductible, and 415 maximum lump sum calculations all within stated budget constraints
 - o 415 adjustments for pre-62 or post-65 commencement is automated
 - Reflects published segment rates or rates selected that represent long-term budget planning
 - Use features within the ASC Valuation system plan specifications to further customize cash balance and DC plan calculations for the budget
 - o Export results into your own custom proposal materials
 - o Quickly convert finalized proposal case to a working valuation case
- Considerations
 - o Results should always be reviewed an actuary
 - Once budget results are calculated, you can adjust the final Cash Balance formula to fit your client's goals
 - The combo plan in ASC is meant for use for budget proposal purposes. It may not be appropriate for valuation purposes.
 - o Current version of the budget calculator is designed for one person plans only.
- Stay tuned for future enhancements!



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#2 – One Participant DC Cash Balance Plan Proposal

B. Case Preparation

- Plan Specifications
 - o New EOY valuation Cash Balance plan paired with a new DC plan
 - DB: Funding \ FUNDMETH screen \ Beginning of Year Valuation set to No
 - EOY valuation funding segment rates may not be published when you are preparing proposals
 - Work with your actuary to determine reasonable best estimate of segment rates
 - If Budget target is the Maximum Deductible, consider coding at-risk loads and assumptions

ew	Plan Identification		2
Specifications	Name DC/CB O	wner Only Proposal - DC	
E Contraction	2021 Jun	e Release Webcast	
ELIG ELIG ED SECELIG ED TERELIG ED ALTELIG ERTIRE	Memo	Client No. 12/31/20	121 ERN No V
Vesting Vesting Definitions Definitions Definitions Assumptions	Plan Dates Plan Year Begin 01/01/20 Plan Effective 01/01/20		in Date 12/31/2021
Cource Source	Corporation Dates	Other Dates	Plan Year End History
🗄 👘 Fund 🗄 😳 Loan	Incorporation Date	Exclude Service	PYE Hist 1
Values Constants Constants Constants	Corporation Year End Status Y - Incorporated •	Insurance Issue Date	PYE Hist 2 PYE Hist 3

DC Plan Specifications: General \ Identification \ ID screen

Edit Search Wew Options	Window Help		
*	- Identification		l
Specifications			Cash Balance Plan
General	Name DC/CB Owner On	ly Pmoseal - CB	Yes 💌
	2021 June Relea		Floor/Offset Plan
ELIG RETIRE ANCILELG	2021 June Nelea	se webcast	No 💌
ANCILELG			Mult. EE Locations
VESTING ACCRUAL	Memo	Client No. 12/31/2021	No 🔻
	Plan Dates		
Compensation Denefts			
Definitions	Plan Year Begin 01/01/2021	End 12/31/2021	Effective 01/01/2021
E C Insurance Funding	Other Dates	Corporation Dates	Plan Year End History
	Exclude Service	Incorporation Date	PYE Hist 1
Costs	Exclude Accrual Svc	Corporation Year End	PYE Hist 2
Locations		Corporation Tear Eng	
1. LOT A TROUBLE	Non-PInYr Comp. Date	Status Y - Incorporated •	PYE Hist 3
	Insurance Issue Date 12/31/2021	Covered by PBGC No -	

DB Plan Specifications: General \ Identification \ ID screen

Tuesday, August 10, 2021

#2 – One Participant DC Cash Balance Plan Proposal

B. Case Preparation (Continued)

- Employee Data
 - o One participant in each plan
 - o Index solo participant by coding the same value in SSN field or Name field
 - Solo participant Principal code setting
 - Cash Balance Plan: 1 Group 1
 - DC Plan: Y Yes
 - o Deferral is an optional input in the DC plan

B EMPLOYEE - D17:0041		
File Edit Search View Options	Window Help	
View Specifications Basic Data DATE DATE COMP HISTORY HISTORY ACOUNT Values Complance Forolyzes Forolyzes Forolyzes Forolyzes Forolyzes Second	Name and Identification - Max Benefit Name Max Benefit Social Security Number Order N - No Order N - No Principal Y - Yes Key and HCE Key N - No Key Reason O None HCE N - No HCE N - No HCE Prior HCE Prior HCE Prior HCE Prior HCE Prior No No HCE No No	
Find Existing	Miscellaneous Location Elected Alternate Vesting N - No Sex M - MALE Fund Percent Changed N OK Cancel Key: 1 Notes	

DC Employee: Basic Data \ NAME screen

e Edit Search View Option	s Window Help			
SW/	Name and Identification - Max Benefit			(
Specifications	Name and ID's			
Basic Data	Name Max Benefit	Social Security Number 00	0-00-0001 Number	
E DATE	Memo			
COMP	interne 1			
HISTORY	Corporate and Family Info	Key and H	E	
ADDRESS Benefits				
- Costs		1 - Group 1 💌	Key N - No 💌	
Employees	Ownership Pct 100.00			
Find Existing	Family Code Spou	se code	HCE N - No	·
Grids	Family Prior Year Lineal Des	LC. Code HCE	Prior N - No	-
	Miscellaneous			
	Location Eligible for Secondary Vesting	1-No · Sex M-MALE ·	Print Multi-Decrement Support	N - No
	Circle for United Minimum Description		Cours All Desertion	
	Eligible for Unitized Minimum Benefit	N - No -	Force All Benefits	N - NO •
	Eligible for Vesting Override		Eligible for 415 Service Override	In the second

DB Employee: Basic Data \ NAME screen

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#2 – One Participant DC Cash Balance Plan Proposal

C. Budget Calculations

• Launch from the DC: Calculations > Budget > DC/CB Combo Budget

DC/CB Combo Budget	X
Multiple Plan Setup Setup Disk Plan D17 0042 Match Employees Employee Name Employee SSN Valuation Options Calculate Eligibility	Budget Budget Amount 250,000 ✓ Budget includes deferrals Solving Options Step Increment Amount 100.00 ✓ Step increment is percent Increasable Group 2 Minimized Group 3 ✓ Solve with reclassify 401(a)(4) Parameters 401(a)(26) Parameters
OK Cancel	401(a)(26) Parameters Help

DC: Calculations > Budget > DC/CB Combo Budget Menu

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#2 – One Participant DC Cash Balance Plan Proposal

C. Budget Calculations (Continued)

- Menu Features
 - o Multiple Plan Setup
 - Ensure Cash Balance plan is selected to be paired with the DC plan
 - Select option for indexing solo participant either Number, Name or SSN
 - o Valuation Options
 - If eligibility has not already been calculated in both plans, select 'Calculate Eligibility' option
 - o Budget
 - Budget Amount
 - Leave blank to target the maximum deductible contribution
 - Input an amount to target a specific total budget for the combined CB/DC plans
 - Budget include deferrals if checked, be sure deferrals are coded in DC employee record
 - o Solving Options
 - Reserved for future enhancements

Tuesday, August 10, 2021

#2 – One Participant DC Cash Balance Plan Proposal

D. Analysis and Reporting

- Review results within the CB and DC plan specifications and employee records
- Customizable combo proposal report
 - Launch from the DC: Reports > Studies and Proposals > DC/CB Combo

Multiple Plans Setup	Disk Plan D18 0291 DC/CB Owner O	Only Proposal - CB
Report Sections Title Page Compliance Testing Summary Plan Summary Summary of Assumptions Census DC Plan Costs CB Plan Costs Combo Plan Costs Combo Plan Budget Summary	Source Options Safe Harbor Source None	C Number C Number C Name SSN Ownership Type C Ownership Percent
Owner Summary Select All Select None Plan Description DC/CB Owner Only Proposal - D	C	'Prepared By'
Create extract file	L	Column Headers Group Definition
	<u>a</u>	Disclaimer Setup Printer Setup

DC: Reports > Studies and Proposals > DC/CB Combo Menu

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#2 – One Participant DC Cash Balance Plan Proposal

D. Analysis and Reporting (Continued)

- o Menu Options
 - Multiple Plan Setup
 - Ensure Cash Balance plan is selected to be paired with the DC plan
 - Report Sections
 - Title Page
 - o Includes Disclaimer
 - Plan Summary
 - o Summary of DC and CB plans
 - o Budget conditions from Budget Calculations menu

	For	For Max Benefit Plan Specifications Plan Year Ending December 31, 2021			
		DC Plan	<u>CB Plan</u>		
Primary Eligibility	Age: Service: Exclusions: Entry Date(s): Source(s):	21 0 years Union, Leased, and Nonresidents Date eligible Employee Deferral, Employer Discretionary	21 0 years None Date eligible		
Normal Retirement	Age: Participation:	62 1	62 1		
Contributions	Group 1:	6% of compensation	\$253,700		
415 Maximum Benefit		\$58,000	Lesser of \$19,166.66 and 100% of the highest 3-year average salary, subject to service requirements.		
		Budget Conditions			
Budget Amount Targeted Maximum Contribution					

DC: Reports > Studies and Proposals > DC/CB Combo Menu: Plan Summary

Tuesday, August 10, 2021

#2 – One Participant DC Cash Balance Plan Proposal

D. Analysis and Reporting (Continued)

- o Menu Options (Continued)
 - Report Sections (Continued)
 - Summary of Assumptions
 - Summary of Cash Balance assumptions

	s	CB Owner Only Propo For Max Benefit fummary of Assumption Year Ending December 3	s
	For F <u>Min</u>	unding <u>Max</u>	<u>For Actuarial Equivalence</u>
Interest Rates	Seg 1: 4.75%	1.45%	Pre-Retirement: 5.00%
	Seg 2: 5.36%	2.85%	Post-Retirement: 5.00%
	Seg 3: 6.11%	3.52%	
Pre-Retirement	No pre-retiremen	nt decrements	
Assumed Ret Age	Normal retireme participation	nt age 62 and 1 years of	Normal retirement age 62 and 1 years of participation
Post-Retirement			
Mortality	Male-2021 Statio Male Female-20 Combined Fema	2021 Applicable Mortality Table from Notice 2019-67	
Assumed Benefit Form F	or Funding	100% Lump Sum / 0% Normal Form	
Cash Balance Interest Cr	rediting Rate		5.00% annual rate
Cash Balance Projected I	Interest Crediting I	Rate	5.00% annual rate

DC: Reports > Studies and Proposals > DC/CB Combo Menu: Summary of Assumptions

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#2 – One Participant DC Cash Balance Plan Proposal

D. Analysis and Reporting (Continued)

- o Menu Options (Continued)
 - Report Sections (Continued)
 - Census
 - DC Plan Costs
 - o Contributions, deferrals (if any), and totals
 - CB Plan Costs
 - Summarizes CB Contribution Credit, PPA Minimum, PPA Maximum, and 415 Immediate Maximum Lump Sum

			Cas	For Max h Balanc	Only Propo Senefit e Plan Costs g December 3						
Participant Name	Owner <u>Pct HCE Key</u>	Group Annual <u>Code Comp</u>	Contrib <u>Credit</u>	Pct of <u>Comp</u>	PPA Funding <u>Target</u>	Minimum Normal <u>Cost</u>	PPA N Funding <u>Target</u>	Maximum Normal <u>Cost</u>	Cost <u>Estimate</u>	415 Imm <u>Lump Sum</u>	Accrued <u>Benefit</u>
Max Benefit	100.00 N N	1 300,000.00	253,700.00	84.57	0.00	254,731.00	0.00	271,573.00	254,731.00	253,700.00	1,733.99
Subtotal		300,000.00	253,700.00		0.00	254,731.00	0.00	271,573.00	254,731.00		
Total		300,000.00	253,700.00		0.00	254,731.00	0.00	271,573.00	254,731.00		

DC: Reports > Studies and Proposals > DC/CB Combo Menu: CB Plan Costs

Tuesday, August 10, 2021

#2 – One Participant DC Cash Balance Plan Proposal

D. Analysis and Reporting (Continued)

- o Menu Options (Continued)
 - Report Sections (Continued)
 - Combo Plan Costs
 - Summarizes the CB Contribution Credit, the DC Employer Contribution, CB Plan Costs, and Combined Plan Costs

					Employee Con		nefit						
Participant Name	Owner <u>Pct</u>	<u>HCE</u>	<u>Key</u>	Annual <u>Comp</u>	CB Plan Contrib <u>Credit</u>	CB Plan Pct of <u>Comp</u>	Pct of CB Plan <u>Cost</u>	DC Plan Employer <u>Contrib</u>	CB Plan Cost <u>Estimate</u>	Combined Employer <u>Contrib</u>	Combined Pct of <u>Comp</u>	Pct of Total Plan <u>Cost</u>	Combined Contrib <u>w/ Defer</u>
Max Benefit	100.00	Ν	Ν	300,000.00	253,700.00	84.57	100.00	17,400.00	254,731.00	272,131.00	90.71	100.00	298,131.00
Subtotal				300,000.00	253,700.00			17,400.00	254,731.00	272,131.00			298,131.00
Total				300,000.00	253,700.00			17,400.00	254,731.00	272,131.00			298,131.00

DC: Reports > Studies and Proposals > DC/CB Combo Menu: Combo Plan Costs

Tuesday, August 10, 2021

#2 – One Participant DC Cash Balance Plan Proposal

D. Analysis and Reporting (Continued)

- o Menu Options (Continued)
 - Report Sections (Continued)
 - Combo Plan Budget Summary
 - o Cash Balance Funding Range
 - May result in no cash balance plan if the budget is satisfied by a solo DC plan
 - o Combined Plan Maximum Deduction Limit
 - Reflects combined plan deduction limits
 - o Budget Analysis
 - Provides analysis on the combined plan costs with the stated budget constraint

	DC/CB Owner Only Proposal For Max Benefit Combo Plan Budget Summary For Plan Year Ending December 31, 2021	l
Cash	Balance Funding Range	
A)	Cash Balance PPA Minimum Required Contribution:	254,731
B)	Cash Balance Contribution Credits:	253,700
C)	Cash Balance PPA Maximum Deductible Contribution:	271,573
D)	Estimated Cash Balance Cost [Greater of A and B, but no more than C]:	254,731
Com	bined Plan Maximum Deduction Limit	
E)	Cash Balance Plan Covered by PBGC?:	No
F)	Defined Contribution Limited Compensation:	290,000
G)	Defined Contribution Employer Contributions:	17,400
H)	Ratio of Employer Contributions to Limited Compensation $[G/F]$:	6.00%
I)	Do DC Contributions Exceed 6% of Limited Compensation? [Is $H > 6\%$]:	No
J)	Potential Combined Plan Deduction Limit [C + 6% of F]:	288,973
	If CB Plan is covered by PBGC, $C + 25\%$ of F	
	If CB Plan is not covered by PBGC, if $I = Yes$, then 31% of F	
	If CB Plan is not covered by PBGC, if $I = No$, then $C + 6\%$ of F If DC only, then 25% of F	
	I De ony, men 2570 of P	
Budş	get Analysis	
K)	Budget:	Targeted Maximum Contribution
L)	Defined Contribution Cost:	17.100
	 Employer Cost: Employee Deferral: 	17,400 26,000
M)	2) Employee Deferral: Cash Balance Cost:	26,000 254,731
N)	Total Combined Plan Cost:	298.131
,		

DC: Reports > Studies and Proposals > DC/CB Combo Menu: Combo Plan Budget Summary

Tuesday, August 10, 2021

#2 – One Participant DC Cash Balance Plan Proposal

D. Analysis and Reporting (Continued)

- o Menu Options (Continued)
 - Report Sections (Continued)
 - Owner Summary
 - Includes estimated tax savings based on Tax Bracket entered in Report Options
 - Source Options
 - Employee Matching
 - Use Number, Name, or SSN field
 - Ownership Type
 - Plan Description
 - Edit the title of the plan that appears on the Title Page and as Report Headers
 - Report Options
 - Prepared by and Date Prepared options
 - Tax Bracket Percent for estimated tax savings calculation in the Owner Summary report
 - Column Headers to describe DC Plan sources for DC Plan Costs report
 - Disclaimer Setup customizable text included on Title Page and Plan Summary reports
 - Create Extract File
 - Check this option to create an extract .xlsx file to integrate into your own customized proposal reports
 - Each report selected from the Report Sections will appear on its own tab

Tuesday, August 10, 2021

#2 – One Participant DC Cash Balance Plan Proposal

D. References

• FAQs

ASC	Client S	Support Ce	nter	Search ASC FAQs	P				
NEW INCIDENT	VIEW INCIDENTS	SEARCH	REPORTS	FILE MANAGER	BILLING				
FAQs ASC									
+ Actian SQL									
+ Daily Val - DV Direct									
+ DC - Compliance									
+ DC - Recordkeeping									
 Defined Benefit 									
FAQ 1099: Maximum Deductible - At Risk Liabilities									
FAQ	932: Maximun	n Deductil	ble - At Ris	<u>k Loads</u>					

- DB Reference Manual
 - o Dedicated chapter expected Fall 2021
- Online Help
 - o <F1> on keyboard to access online help for each employee or plan specifications field



Tuesday, August 10, 2021

#1 – American Rescue Plan Act of 2021

#2 - One Participant DC Cash Balance Plan Proposal

#3 – ASC-715 Basics in ASC

#4 – Participant Termination/Optional Forms

#5 – DB Pattern Plans Overview

#6 – Extended History

#7 – Average Compensation Overview

#8 – Traditional Benefit Formula Coding

#9 – Participant Reconciliation with Grids and Formulas

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

Topic Roadmap

- A. Overview of ASC-715
- B. ASC Programming for ASC-715
- C. ASC Results Storage for ASC-715
- D. ASC Reporting for ASC-715
- E. Sample Calculations for ASC-715
- F. References

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

A. Overview of ASC-715

- FASB Accounting Standards Codification 715 (formerly FAS 87)
 - Required reporting for publicly held plan sponsors and private plan sponsors that require Generally Accepted Accounting Principles (GAAP) accounting.
 - Auditor/CPA is responsible for determination of reporting requirement
 - Key ASC-715 Terms as found in ASC

ASC-715 Term	ASC-715 Description	ASC Calculation Description*
Measurement Period	Fiscal Year	 Plan Year Begin/End dates are used for calculations Corporation Year End is used to report fiscal year end if different from Plan Year End date
Cost Method	Projected Unit Credit	• Default cost method for ASC-715 calculations
Asset Method	Fair Market Value	Assets entered in Market Value of Assets field
Discount Rate	Rate at which obligations could be settled	 Single rate pre- and post- retirement Yield Curve
Accumulated Benefit Obligation (ABO)	Present value of accrued benefits	• Present value as of the valuation date of the Accrued Benefit
Projected Benefit Obligation (PBO)	Present value of accrued benefits reflecting salary increases	 Present value as of the valuation date of the greater of a) Accrued portion of the FASB screen Projected Benefit b) Accrued Benefit
Service Cost (SC)	Present value of benefit earned during the year	 Present value as of the valuation date of the greater of a) and b) minus the PBO a) Accrued portion as of the end of the year of the FASB screen Projected Benefit b) Accrued Benefit as of EOY

* ASC recommends BOY valuations for ASC-715 calculations

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

A. Overview of ASC-715 (Continued)

- FASB Accounting Standards Codification 715 (formerly FAS 87) (Continued)
 - Assumptions
 - Selected by the plan sponsor, reviewed by auditor
 - Actuary may provide guidance on certain demographic assumptions and each assumption should represent "best estimate" of that assumption as of the measurement date
 - Discount rate
 - Rate at which obligations could be settled
 - ASC can accommodate the single rates of pre-retirement/postretirement interest, tiered rates, or yield curves
 - \circ Tools within ASC
 - Effective interest rate calculation for discount rate
 - Bond matching using projected payouts output
 - Salary Growth rate
 - Mortality
 - Assumption should be appropriate for the employee base covered under the plan as of measurement date
 - Reflect expected changes (improvements) in mortality
 - Very common to apply 2D mortality projection scales
 - ASC can accommodate mortality assumptions with mortality projection
 - Expected Long-Term Return on Plan Assets
 - Reporting requirements
 - Net Periodic Pension Cost
 - ASC report available based on user inputs for components
 - Year-end disclosures of balance sheet
 - Settlement/curtailment reporting
- ASC-715 and the Small Plan Market

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

B. ASC Programming for ASC-715

• Assumptions Coding on Plan Specifications: Assumptions \ FASB screen

PLANSPEC - D17:0043					- 0	х
File Edit Search View Options	Window Help					
View Specifications General	FASE Assumptions Pre-Retirement Rates are PPA Tiered No ▼ Interest Rate 1 4.00 Number of Years 99 Interest Rate 2 4.00 Number of Years 99 Interest Rate 3 4.00 Curve ■	Tables Male Pre-Retirement Mor Pre-Retirement Dis Salary Scales Post-Retirement Mor Pre-Retirement Mor PR12WCAM	ibility icitize icitiz	Male f Pre-Retirement Turnov Early Retirement Rates Annuity Table	•	
B — Costs D — Could Values B — Collisions		Projected Mortality		Male Male MP2020 M Crease 415 \$ Limit Maximum Comp.	Female MP2020 F	•

Plan Specifications: Values \ FASB screen

- Options to enter tiered rates, single rate of pre-retirement interest, single rate of postretirement, or yield curve
- o Enter pre-retirement tables as needed
 - If Pre-Retirement Mortality, Turnover, or Disability tables are entered, select the corresponding Method Used on the Funding \ FUNDMETH screen.
- o Asset Long Term Rate of Return
 - Prints on the Summary of Actuarial Assumptions and Projected Payouts reports
- Projected Mortality coding
 - 1-D or 2-D projection scales
 - Reminder: When using projection scales, base tables must have the base year entered on the 3rd description line of the base table
- o Benefit Forms
 - Form of payment will be the annuity specified in the Funding \ BENFORM screen
- o Projected Rates
 - To apply assumed annual increase in 415 \$ Limits and 401(a)(17) Maximum Compensation Limit in the calculation of the FASB projected benefit

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

B. ASC Programming for ASC-715 (Continued)

Table Maintenance

TBLMAI	NT								
e Edit	Search View	Options	Window	Help					
ew]						
ew									
Gener	ral	^							
	Salary Scale	_							
	Mortality								
	Termination								
E	Covered Compensa Insurance Vesting Schedule	tion							
	Insurance								
	Vesting Schedule								
	Employee Locations Fee Schedules	s							
E	Fee Schedules								
	ed Benefit								
1	DB/CB Formulas Annuity/Accrual								
1	Early Retirement								
	Bond Yield Curves								
	Segment Rates	_							
	Generational Mortal	il v							
	ed Contribution	•.y							
E	Contribution Formula	as							
	Matching Formulas								
	Contribution Formula Matching Formulas Entry Dates Eligibility								
	Eligibility								
Functi	ions	_							
	Calc Annuity Rates								
		- 1							
	Commutation Funct	ions							
	Project/Setback Mi Print List Import/Export Table	ortaity							
	Print List								
E	Import/Export Table	95 V							

Access > Table Maintenance

- o General
 - Mortality
 - Tables may be installed from portable copy available in Client Support Center or imported from Excel file
- o Defined Benefit folder
 - Bond Yield Curves
 - FTSE yield curve
 - 06/30, 09/30, and 12/31 yield curves included with System Patches
 - Other yield curves can be imported
 - Generational Mortality
 - Projection scales included with Patch installation
- o Functions

- Calc PV Factors to check PVFs
- Commutation Functions for 2-D Projection scale checking

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

B. ASC Programming for ASC-715 (Continued)

- ASC-715 Programming Tips and Pointers
 - Consider making a copy of your PPA Funding case when applying unique coding that is specific to the ASC-715 calculations you are trying to achieve
 - Recommend using BOY valuation date
 - In Funding \ FUNDMETH screen, set Use BOY Valuation to Yes
 - Refer to FAQ 936: Valuation Dates Changing from EOY to BOY
 - Refer to System Training > Web Seminars > Defined Benefit
 - DB Top Tips 2020 Topic #1 Changing Valuation Dates
 - We're here to help!
 - The tips and pointers provided may not work for all cases and other approaches may achieve the same results.
 - Contact <u>ASC Support</u> with a portable copy of your plan and your objectives

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

B. ASC Programming for ASC-715 (Continued)

- ASC-715 Programming Tips and Pointers (Continued)
 - o Options for reflecting lump sums in ABO, PBO, and Service Cost calculations
 - Using representative tiered segment rates and lump sum mortality tables
 - Set Rates are PPA Tiered = Yes
 - Enter representative tiered rates to approximate lump sum payments
 - Enter lump sum mortality tables in Post-Retirement Mortality tables
 - Using representative single post-retirement interest rate and lump sum mortality tables
 - Set Rates are PPA Tiered = No
 - Enter representative single rate to approximate lump sum payments in Post-Retirement interest field
 - Enter a single rate as the discount rate in the Pre-Retirement interest fields
 - Enter lump sum mortality tables in Post-Retirement Mortality tables
 - Using Actuarial Equivalence assumptions
 - Set Rates are PPA Tiered = No
 - Enter Actuarial Equivalence post-retirement rate from the Assumptions \ ACTEQUIV screen in Post-Retirement interest field
 - Enter a single rate as the discount rate in the Pre-Retirement interest field
 - Enter Actuarial Equivalence post-retirement mortality tables in Post-Retirement Mortality tables
 - Frozen plan coding in Funding \ PPAFASMP
 - Reminder Make a copy of your plan since you will override the Funding \ PPAFASMP screen assumptions for this pointer
 - Set Funding \ BENFORM screen Fund to Lump Sum Limited by 415 field to Yes to use the PPA Funding to lump sum calculations
 - Code ASC-715 assumptions in the Funding \ PPAFASMP screen
 - If using an ASC-715 yield curve in Funding \ PPAFASMP
 - ASC system default for yield curve lookup options will be the Funding yield curve, but you can type in the ASC-715 yield curve table name in the entry field
 - Funding Target result can be used as the ABO and PBO

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

B. ASC Programming for ASC-715 (Continued)

- ASC-715 Programming Tips and Pointers (Continued)
 - o Frozen plans using Yield Curve
 - Option to use Calculate Effective Interest Rate to verify ASC-715 discount rate developed outside the system using cash flow bond matching process
 - Enter ASC-715 assumptions in Funding \ PPAFASMP screen
 - Select Calculate Effective Interest Rate in the Calculations > Valuation menu.
 - The EIR result will be stored in Values \ VALPPA screen
 - o Cash balance plans
 - The Projected Unit Credit method applied to cash balance plans generally results in PBO equal to ABO because the accrued portion of projected benefit will generally be less than the accrued benefit used for PBO (and SC purposes).
 - In some cases, the PBO will not equal ABO and a workaround is necessary to achieve the results of having the PBO equal to the ABO.
 - Create a Grid that includes at least the ABO and PBO
 - Consider selecting only active status codes (ABC) to limit which participants are affected by this workaround
 - Use Set Column Data to set employee PBO values equal to ABO values

Set Co	lumn Data		X
	FASBPBO FASB PBO	•	
From Name Keys	Data File FASBABO	Subscript 9	
	OK Cancel	Help	

Employee: View > Grid > Set Column Data

- Run Calculations > Valuation as a Partial Calculation from Plan Totals
- Print Reports > Actuarial > FASB
- How to Activate ASC Programming for ASC-715
 - o Run Calculations > Valuation
 - Calculations for ASC-715 run coincident with those of funding and PBGC calculations – no separate calculation step required

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

C. ASC Results Storage for ASC-715

- Employee Results Storage
 - o Benefits \ FASB screen

File Edit Search View Options	Window Help		
Specifications Specifications NAME DATE COMP DATE COMP H DATE ADDRESS Benefits PROJEENF COREENF CASE SOLEPROP Employees Find Existing Search Grids Find Existing Find	FASB Projected Average Comp 4.034.37 Projected Benefit 4.034.37 PlA/Covered Comp 8.065.0 Projected Benefit Obligation 554.707 Accrued Benefit Obligation 551.076.0 Service Cost 29.195 Expected # Receiving Benefits 1.000 Expected Future Service 4.000	FASB Assumptions Present Value PV of Benefits Factor at Valuation Retirement 144.73194 551.075.55 Early Retire.	Integration/Offset Level Projected Benefit 8,065.0 Funding Benefit 8,065.0 Certificate PIA 1,662.9

Employee: Benefits \ FASB

- o ASC-715 results
 - Expected Future Service
 - For inactive status codes, value stored is expected future lifetime
- o ABO results by decrement

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

C. ASC Results Storage for ASC-715 (Continued)

- Plan Results Storage
 - o Selected plan level inputs in Costs \ FASBVAL screen
 - Inputs on this screen will appear on Reports > Actuarial > FASB.. > Information for FASB87 report

PLANSPEC - D17:0043 File Edit Search View Options	Window Help				- 0 -
View Specifications General General Costs Costs Costs Costs BASIS BASIS BASIS BASIS CONTRIB BASIS BASIS CONTRIB BASIS CONTRIB Costs	FASB Values FASB Initial Unrecognized Net Obligation Amortization Payment on IUNO Unrecognized Prior Service Cost Amortization Payment on UPSC Unrecognized Gain or Loss	1.200.00	Amortization Payment on UGL Additional Minimum Liability Net Deferred Asset Gain or Loss Interest Cost Actual Return on Assets	658.751.00	

Plan Specifications: Costs \ FASBVAL

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

C. ASC Results Storage for ASC-715 (Continued)

- Plan Results Storage (Continued)
 - o Active plan total results stored in Values \ VALFASB

PLANSPEC - D17:0043 File Edit Search View Options	Window Help				-	×
View Specifications General Assumptions Costs Source Values Values	Values for FASB FASB Projected Compensation Projected Benefit PIA Projected Benefit Obligation Accrued Benefit Obligation Service Cost Expected # Receiving Benefits Expected Future Service FASB PV Vested Benefits	131,090.00 1,825,060.00 14,334,639.00 13,984,119.00 145,687.00 21,000.00 13,980,492.00	FASB Assumptions Retirement Early Retirement Termination Disability Pre-Ret Death	13,984,119.81		

Plan Specifications: Values \ VALFASB

o Retired and Term Vested plan total results stored in Values \ LIABILTY

Ele	<u>E</u> dit <u>S</u> earch <u>V</u> iew <u>Q</u> pti	ons	<u>Window</u> Help	
P-	Costs Contrib BASES BASES BASES BASES BASES CONTRIBLY BASES CONTRBLY BASES CONTRBLY BASES CONTRBLY BASES CONTRBLY BASES CONTRBLY BASES CONTRBLY BASES CONTRBLY BASES CONTRBLY BASES CONTRBLY BASES CONTRBLY CONTRBLY CONTRBLY CONTRBLY CONTRBLY CONTRUCTOR CO	*	Liability Retired and Vested PVAB Actuarial Equivalent 1.181.613.00 628.173.00 PVAB Top Heavy PVAB Top Heavy 1.181.613.00 628.173.00 PVAB Top Heavy PVAB Top Heavy 1.181.613.00 628.173.00 PVAB Top Heavy PVAB Top Heavy 1.181.613.00 628.173.00 PVAB Top Heavy PVAB 417(e) 1.459.354.00 808.728.00 Current Year PPA Por Year PPA Current Year PBGC PPA Funding Target Retired Vested At Risk FT Maximum Vested FT Maximum Vested FT Innimum Vested FT Intramum Vested FT Maximum TNC Maximum TNC Minimum TNC	
	EXPVAL Cocations	~	OK Cancel	

Plan Specifications: Values \ LIABILTY

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

D. ASC Reporting for ASC-715

- Employee Reporting
 - From Basic Data \ NAME screen, select F FAS in the Print Multi-Decrement Support field.
 - Run Calculations > Valuation to generate the report
 - Illustrates at each age the development of each liability by decrement (normal retirement, early retirement, termination, death, disability)

			Tips Webcast	150					
]	fop Tip #3 - ASC		ASC					
			: D17:0043 021 (15:29:29)						
	Present Values (FAS) - Active Employee1								
	Description @ Age	<u>61</u> ³	<u>62</u>	<u>63</u>	<u>64</u>	<u>65</u> ⁴			
1.	Segment rate	4.00%	4.00%	4.00%	4.00%	4.00%			
2.	Mortality	0.000000	0.000000	0.000000	0.000000	0.000000			
3. 4.	Turnover	0.000000	0.000000	0.000000	0.000000	0.000000			
4.	Disability Early retirement	0.000000	0.000000	0.000000	0.000000	0.000000			
6.	Vested percent	100.00%	100.00%	100.00%	100.00%	100.00%			
7.	Probability of survival (all decs)	1.000000	1.000000	1.000000	1.000000	1.000000			
8.	Probability of survival (mort only)	1.000000	1.000000	1.000000	1.000000	1.000000			
9.	Interest discount	1.000000	0.961538	0.924556	0.888996	0.854804			
10.	Present value factor	0.000	0.000	0.000	0.000	0.000			
	Normal Retirement								
11.	Accrued benefit	3,807.56	4,007.96	4,034.37	4,034.37	4,034.37			
12.	Present value of benefit (ABO)	0.00	0.00	0.00	0.00	0.00			
13.	Present value of benefit (PBO) Service cost	0.00	0.00	0.00	0.00	0.00			
14.		0.00	0.00	0.00	0.00	0.00			
15	Employee Mandatory Contribution	0.00	0.00	0.00	0.00	0.00			
16	Accumulated contribs	0.00	0.00	0.00	0.00	0.00			
17.	Benefit by contribs	0.00	0.00	0.00	0.00	0.00			
18.	Present value of contrib	0.00	0.00	0.00	0.00	0.00			
19.	Expected contrib	0.00	0.00	0.00	0.00	0.00			
	Early Retirement								
20.	Reduction	0.791468	0.791468	0.854894	0.924160	1.000000			
21.	Benefit	3,013.56	3,172.17	3,448.96	3,728.40	4,034.37			
22. 23.	Pres val factor ERA to val Present value of benefit (ABO)	180.858	180.858	177.138	173.290	169.316			
23.	Present value of benefit (PBO)	0.00	0.00	0.00	0.00	0.00			
25.	Service cost	0.00	0.00	0.00	0.00	0.00			
	Termination								
26.	Present value of benefit (ABO)	0.00	0.00	0.00	0.00	0.00			
27.	Present value of benefit (PBO)	0.00	0.00	0.00	0.00	0.00			
28.	Service cost	0.00	0.00	0.00	0.00	0.00			
	Pre-retirement Death (Annuity)								
29.	Reduction	0.372308	0.372308	0.401051	0.432359	0.466536			
30.	Benefit	1,417.59	1,492.20	1,617.99	1,744.30	1,882.18			
31.	Present value of benefit (ABO)	0.00	0.00	0.00	0.00	0.00			
32. 33.	Present value of benefit (PBO) Service cost	0.00	0.00	0.00	0.00	0.00			
33.			0.00	0.00	0.00	0.00			
	Pre-retirement Death (Lump Sum)	0.00	0.00	0.00	0.00				
34. 35.	Benefit Present value of benefit (ABO)	0.00	0.00	0.00	0.00	0.00			
35.	Present value of benefit (PBO)	0.00	0.00	0.00	0.00	0.00			
37.	Service cost	0.00	0.00	0.00	0.00	0.00			
	Disability								
38.	Reduction	0.000000	0.000000	0.000000	0.000000	0.000000			
39.	Benefit	0.00	0.00	0.00	0.00	0.00			
40.	Pres val factor NRA to val	0.000	0.000	0.000	0.000	0.000			
41.	Present value of benefit (ABO)	0.00	0.00	0.00	0.00	0.00			
42.	Present value of benefit (PBO)	0.00	0.00	0.00	0.00	0.00			
43.	Service cost	0.00	0.00	0.00	0.00	0.00			
	Compensations								
44.	Compensation	48,412.44	48,412.44	48,412.44	48,412.44	0.00			

Sample Multi-Decrement Report

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

D. ASC Reporting for ASC-715 (Continued)

- Plan Reporting
 - Reports > Actuarial > FASB

eport Sections	Emerging Lia	ability Option	
 Title Page Actuarial Certification Information for FASB 87 		um payments annuity payment	
FAS Projected Payouts Actuarial Assumptions Major Plan Provisions Census FASB Individual Support Page Table of Contents Select All Select None	C Qualificat Starting Pr means no p	Report Options Qualification Standards Starting Page Number (0 0 means no page numbers) Include 'Prepared By' Date Prepared	
Change Provisions C	hange Assumptions	Change Method	
Pension Risk Disc	Group Definition	Printer Setup	

Reports > Actuarial > FASB Menu

- Highlights of Selected Report Pages
 - Information for FASB87
 - Original FASB87 disclosure format based on
 - Assets input in Costs \ CONTRIB
 - Plan level inputs in Costs \ FASBVAL
 - Plan totals of employee liabilities
 - Review current reporting and disclosure requirements to ensure compliance with accounting standards
 - FAS Projected Payouts
 - o Payouts based on Projected Benefits
 - Emerging Liability Option will determine payout type:
 - Lump sum payment lump sum at Normal Retirement using post-retirement assumptions on FASB screen
 - Periodic annuity payment Accrued benefit commencing at Normal Retirement
 - FASB Individual Support Page
 - Active, terminated, in pay status reports showing ABO, PBO, and SC
 - o Active reports include Average Future Service
 - Retired and Terminated reports include Expected Future Life

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

D. ASC Reporting for ASC-715 (Continued)

- Plan Reporting (Continued)
 - Reports > Actuarial > FASB Project Payouts...

FASB Projected Payouts	X
Employee Selection All Employees Start with Selected Employe Individual Employees Print Report Printer Setup	Report Options C Lump sum payments Periodic annuity payment Status codes to print Starting Page Number (0 0 means no page numbers)
Create extract file	Cancel Help

Reports > Actuarial > FASB Proj Payouts... Menu

- Options available include exporting to file, selecting specific individual employees or specific status codes for reporting
- Payouts based on Projected Benefits
 - Emerging Liability Option will determine payout type:
 - Lump sum payment lump sum at Normal Retirement using post-retirement assumptions on FASB screen
 - Periodic annuity payment Accrued benefit commencing at Normal Retirement

Tuesday, August 10, 2021

#3 – ASC-715 Basics in ASC

E. Sample Calculations

- Plan Data
 - BOY Valuation Date: 1/1/2021
 - Unit Benefit Formula: 5% x High 3 Average Compensation for Service up to 20 years
 - ASC-715 Assumptions
 - 4% pre- and post-retirement discount rate
 - No pre-retirement decrements
 - PR12WCAM/PR12WCAF post-retirement mortality with MP2020 M/MP2020 F
 - 2-D generational mortality projection scales
- Participant Data
 - Active Employee1
 - AA 61
 - RA 65
 - Sex Male
 - Service
 - Accrued 19
 - Service at EOY 20
 - Total 23
 - Average Compensation
 - Accrual Average at BOY 4,007.96
 - Benefit Average at EOY 4,007.96
 - Projected Average 4,034.37
 - Benefit
 - Accrued at BOY 5% x 4,007.96 x 19 = 3,807.56
 - Accrued at EOY 5% x 4,007.96 x 20 = 4,007.96
 - Projected Benefit 5% x 4,034.37 x 20 = 4,034.37

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#3 – ASC-715 Basics in ASC

E. Sample Calculations (Continued)

- Participant Data (Continued)
 - Active Employee1
 - PVF 144.73194
 - Stored in EE: Benefits \ FASB screen
 - Check Age Calc APR function
 - Basic Check Calc PV Factors Function

File Edit Search View Options	Window Help	
Arison Ariso	Calculate Present Value Factors Post-Retirement Mortality Primary PR12WCAM Contingent Pre-Retirement Mortality Use Yield Curve Interest Rate 1 Number of Years 99 Interest Rate 2 Number of Years 99 Interest Rate 3	Ages Print a table of present value factors Current Age [61 Retirement Age [65 Ending Age Spouse's Age @ Retirement Age Coptions Period Certain Period Certain Only [7 Percent to Survivor COLA Post-Ret Load Initial Boeneft [10 Maximum Beneft; [10 Advinum Rate 144.7322

Table Maintenance > Functions > Calc PV Factors Menu

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#3 – ASC-715 Basics in ASC

E. Sample Calculations (Continued)

- Participant Data (Continued)
 - Active Employee1 (Continued)
 - PVF 144.73194 (Continued)
 - Advanced Check Commutation Functions Function

	Window Help		
Vestry Schedule Vestry Schedule Frei Schedule Frei Schedule Derned Bernet DB/CB Formulas Anvark/Account Eaty Retirement Bond Yield Curves Segment Rates Segment Rates Segment Rates Frei Schedule Eaty Retirement Eaty Retire	Calculate Commutation Functions Dats Primary Mortality PR12WCAM Cordingert Mortality Turnover Uisability Salary Scale Interest Rate 2 Interest Rate 2 Interest Rate 3 Prim. Starting Age [5] Prim. Ending Age [5]	Mortality Projection Type 20 V Prim. Table MP2020 M V Cost. Table Val Year 2021 Prist Include Cx, Mx and Rx values Print	Projection Factors First Age [55 Second Age Third Age Print Export to File
Calc Annuty Rates Calc PV Factors Commutation Functions Project/Setback Montality Print List	Cort Starting Age	Cancel Help	

Table Maintenance > Functions > Commutation Functions Menu

- o Projection Factors Report for First Age 65
 - Provides detail of the 2-D Projection Scale adjusted qx at First Age 65

		Proj	ection Factors	
Participant Fac			Projection Scale:	MP2020 M
Mortality Proj		2-D	Valuation Year:	2021
Base Mortality	r:	PR12WCAM	Base Year:	2012
Age:		65		
Year of Age:		2025		
(a) Base Qx:		0.008120		
(b) Cumulative	e Product			
of Projection F		1.005419		
Projected Qx ((a) x (b)):	0.008164		
		Projection		
Projection	From	Factor		
Factor	Scale	1 - (c)		
Year	Age 65 (c)	from Scale		
2013	0.0012	0.9988		
2014	-0.0016	1.0016		
2015	-0.0038	1.0038		
2016	-0.0055	1.0055		
2017	-0.0059	1.0059		
2018	-0.0055	1.0055		
2010	-0.0043	1.0043		
2020	-0.0025	1.0025		
2021	-0.0002	1.0002		
2022	0.0023	0.9977		
2023	0.0047	0.9953		
2024	0.0069	0.9931		
2025	0.0087	0.9913		

Table Maintenance > Functions > Commutation Functions with Projected Factor Input of 65

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#3 – ASC-715 Basics in ASC

E. Sample Calculations (Continued)

- Participant Data (Continued)
 - Active Employee1 (Continued)
 - PVF 144.73194 (Continued)
 - Advanced Check Commutation Functions Function (Continued)
 - Commutation Functions Report for range 61 to 65
 - Confirms use of the 2-D Projection Scale adjusted qx
 - 12ax column shows the APR at each age

Commutation Functions										
Prin Turi Disa	rest Rate 1: nary Mortality: nover: ability: ary Scale:		4.000% PR12WCAM		Mortality Project Type: Primary Project Scale: Valuation Year:			2-D MP2020 M 2021	Base Year:	2012
		Mort	Turn	Disa						
Age	Lx	Qx	Qx	Ox	Sx	Dx	Nx	NSx	<u>N12x</u>	<u>12ax</u>
61	931,069.08	.006875	.000000	.000000	0.0000	88,507.65	1,401,067.62	0.00 1,	360,501.62	184.459
01	924,667.98	.007147	.000000	.000000	0.0000	84,518.43	1,312,559.97	0.00 1,	273,822.36	180.858
62										
	918,059.38	.007419	.000000	.000000	0.0000	80,686.90	1,228,041.54	0.00 1,	191,060.05	177.138
62	,	.007419 .007748	.000000	.000000 .000000	0.0000 0.0000		1,228,041.54 1,147,354.65		191,060.05 112,059.33	177.138 173.290

Table Maintenance > Functions > Commutation Functions

- To check the PVF APR at 65 discounted at pre-retirement interest
 - 169.316 x 1.04^ (61-65) = 144.732

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#3 – ASC-715 Basics in ASC

E. Sample Calculations (Continued)

- Participant Data (Continued)
 - Active Employee1
 - ABO
 - Present Value of Accrued Benefit
 - Accrued Benefit x PVF
 - 3,807.56 x 144.73194 = <u>551,075.55</u>
 - PBO
 - Present value of the maximum of the Accrued Benefit or accrued portion of the Projected Benefit
 - Benefit Used for PBO = Maximum [Accrued Benefit; Accrued portion of Projected Benefit]
 - Maximum [3,807.56 ; 19/20 x 4,034.37]
 - Maximum [3,807.56 ; 3,832.65] = 3,832.65
 - PBO = Benefit Used for PBO x PVF
 - 3,832.65 x 144.73194 = <u>554,707.09</u>
 - Service Cost

Ο

- Present value of the maximum of the Accrued Benefit at EOY or accrued portion at EOY of projected benefit reduced by the benefit used for PBO
 - Benefit Accrual for Service Cost = Maximum [Accrued Benefit at EOY ; Accrued portion at EOY of Projected Benefit] - Benefit Used for PBO
 - Maximum [4,007.96 ; 20/20 x 4,034.37] 3,832.65
 - Maximum [4,007.96 ; 4,034.37] 3,832.65 = 201.72
 - SC = Benefit Accrual for Service Cost x PVF

•

201.72 x 144.73194 = **29,195.33**

Edit Search View Options			
	FASB/Integration - Active Employee1		
Specifications Basic Data	FASE	FASB Assumptions Present Value PV of Benefits Factor at Valuation	Integration/Offset Level
COMP	Projected Average Comp 4,034.37	Retirement 144.73194 551,075.55	Projected Benefit 8,065.0
ADDRESS	Projected Benefit 4.034.37	Early Retire.	Funding Benefit 8,065.0
Benefits	PIA/Covered Comp 8.065.0	Termination	Accrued Benefit 8,065.0
PROJBENF	Projected Benefit Obligation 554,707	Disability	Certificate PIA 1,662.9
FASE INSUR	Accrued Benefit Obligation 551,076.0	Death	
SOLEPROP	Service Cost 29,195		
Costs	Expected # Receiving Benefits 1.000		
L UAUPPA L UAULTY COSTS EXPVAL CASHBAL Employees D And Exiting	Expected Future Service 4.000		

Employee: Benefits \ FASB

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#3 – ASC-715 Basics in ASC

F. References

- **Client Support Center** •
 - Downloads > System Tables
 - DB Tables Generational Mortality Projection Documentation.pdf
 - PPA Mortality Tables Import Instructions.pdf
 - This document includes a comprehensive list of available mortality tables to download from the System Tables folder
 - System Training > Web Seminars > Defined Benefit
 - DB Top Tips 2020
 - Topic #1 Changing Valuation Dates

AQs

-							
	ASC	Client S	Support Ce	nter	Search ASC FAQs	P	
	NEW INCIDENT	VIEW INCIDENTS	SEARCH	REPORTS	FILE MANAGER	BILLING	
	FAQs A	SC					
	+ Actian Se	QL					
	+ Daily Val	- DV Direct					
	+ DC - Cor	npliance					
	+ DC - Red	cordkeeping					
	- Defined I	Benefit					
	FAQ	936: Valuatior	Dates - C	hanging fr	om EOY to BO	<u>YC</u>	
DB Ref	erence Manua	I					
0	Chapter 15: F	ASB Reports					

- .
- System Reference Manual •
 - o Chapter 6: Table Maintenance
- Online Help •
 - <F1> on keyboard to access online help for each employee or plan specifications field



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#1 – American Rescue Plan Act of 2021

#2 – One Participant DC Cash Balance Plan Proposal

#3 – ASC-715 Basics in ASC

#4 – Participant Termination/Optional Forms

#5 – DB Pattern Plans Overview

#6 – Extended History

#7 – Average Compensation Overview

#8 – Traditional Benefit Formula Coding

#9 – Participant Reconciliation with Grids and Formulas

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#4 – Participant Termination/Optional Forms

Topic Roadmap

- A. Accessing the Program
- B. Participant Termination / Optional Forms Menu
- C. Export Factors
- D. Sample Reports
- E. References
- F. Appendix A: 2020 Top Tips for the DB Valuation System #8 Plan Term/Optional Forms
 Enhancements for Cash Balance Plans

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#4 – Participant Termination/Optional Forms

A. Accessing the Program

- The Participant Termination / Optional Forms program is designed to provide:
 - o Lump sum and optional form calculations for individual participants
 - o Lump sum amounts for all participants in an active or terminated plan
 - o Option to calculate actuarially increased benefits for late retirees
 - PBGC notices of plan benefits for active, terminated, and retired participants in PBGC covered terminated plans
- To access these reports, go to ASC Main Menu > Reports > Actuarial > Participant Termination/Optional Forms...

ASC Main Menu: Reports > Actuarial > Participant Termination Optional Forms

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#4 – Participant Termination/Optional Forms

B. Participant Termination / Optional Forms Menu

Participant Termination / Optional Forms		×
Employee Selection All Employees Start with Selected Employee Individual Employees Report Options Parameters Single Lump Sum Worksheet Calculation Worksheet Partic. Statement with Optional Forms Present Value Report Schedule SB Attachment PBGC Benefit Commitment - Active PBGC Benefit Commitment - Retired Vest everyone 100% Include Status Codes ABCT	Social Security Number Yes Mask No EENumber Calculation Options Calculation Date 07/31/2021 Use calculation date for all Use only if no employee termination date Store recalculated values Recalculation Options Present Values Nearest Values Nearest Year Nearest Year Nearest Month Nearest Month Calc actuarial increase for late retirees	Optional Forms to Show ✓ Life Only Life with 15 Years Certain ✓ Life with 15 Years Certain Life with 15 Years Certain ✓ Life with 15 Years Certain ✓ Joint and 75% Survivor Joint and 75% Survivor Joint and 50% Survivor Joint and 50% Survivor Single Lump Sum PBGC Benefit Commitments Termination Date Distribution Date Distribution Date 03/31/2021 Involuntary Cashout
Cash Balance Options Use CB conv factors for Imm and Ret benefit Use CB conv factors for all opt forms of payr Show cash balance basis Show cash balance contribution history		nutFactors_CASH BALANCE PARTICIPAN"

Reports > Actuarial > Participant Termination Optional Forms

- Employee Selection
- Report Options

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#4 – Participant Termination/Optional Forms

B. Participant Termination / Optional Forms Menu (Continued)

- Cash Balance Options
 - Use CB conv factors for Imm and Ret benefit payment
 - Select this option to have the normal form of payment calculated based on Cash Balance assumptions entered in the Assumptions \ CASHBAL screen
 - All other optional forms will be calculated based on Actuarial Equivalence assumptions entered in the Assumptions \ ACTEQUIV screen
 - Use CB conv factors for all opt forms of payment
 - Select this option to have all optional forms of payment calculated based on Cash Balance assumptions rather than Actuarial Equivalence assumptions
 - Show cash balance basis
 - Select this option to include the total cash balance contribution credits from the participant's Employee \ Costs \ CASHBAL \ Basis in Account field on the Calculation Worksheet
 - Show cash balance contribution history
 - Select this option to include the cash balance contribution history on the Calculation Worksheet
 - o Additional information
 - 2020 Top Tips for the DB Valuation System #8 Plan Term Optional Forms Enhancements for CB Plans provides sample reports and calculations specific to Cash Balance plans. The handout from that session is included with this topic in Appendix A
 - The DB Reference Manual, Chapter 5: Participation Termination/Optional Forms, Example 2 has additional sample reports with calculations that cover a variety of combination of selections from the Participant Termination / Optional Forms menu

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#4 – Participant Termination/Optional Forms

B. Participant Termination / Optional Forms Menu (Continued)

- Calculation Options
 - Enter a Calculation Date after the plan year begin date and not more than 12 months after the plan year
 - Present Values can be recalculated using nearest year, month or day or the value stored in participant screens can be used if "Do Not Recalculate" is selected. The APRs used for this calculation will be weighted based on the selected option.
 - The following employee fields are used when "Do Not Recalculate" is selected: Benefits \ ACCRBENF \ Present Value of Accrued Benefit for 417e and Costs \ LIABILITY \ 415 Immediate Lump Sum Benefit. The report can be overridden by manually editing these fields to any value you determine is appropriate before printing.
 - Update Assumptions \ 417E and MAXBNADJ screens with the parameters applicable to the calculation period.
 - 415 calculations are based on Completed Months
 - o Calculate Annuity Payments to the Nearest Year or Nearest Month
- Optional Forms to Show
 - Forms and the factors used are included in the Export Factors File
- PBGC Benefit Commitments
 - o Actives used for Active and Terminated Participants
 - o Retired for participants in pay status
 - Enter the Plan Termination Date, Extended Termination Date, if applicable, Proposed
 Distribution Date and Involuntary Cashout amount, if applicable in the Participation
 Termination / Optional Forms Menu. These entries will be included in the reports
 - If no Involuntary Cashout amount is entered, the report will assume participant and spousal consent, if married, are required for benefit payments
- Export Factors
 - o Option to export factors becomes available when Optional Forms report selected

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#4 – Participant Termination/Optional Forms

C. Export Factors

- Create export factors file
 - o Fixed columns allow user to integrate the data with other documents
 - o Can be used to integrate with Relative Value Disclosure Forms
 - o Can be used to check the Participant termination / Optional Forms Report results
- Data extracted includes:
 - Factors, such as: employee data, retirement age, optional form calculations for Optional Forms selected in the menu

	AutoSave 💽 Off)	日 り・ ペ	᠂᠊᠖᠂᠂ᢙ᠈᠂᠋ᡒ	÷		D220	001_PTOFOutput	Factors_SAM	PLE -		
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			Ja Ivanie								
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1											
2	Name	SS#	Birth Date	Spouse Bi	Term Date	Ret Date	Calculation Da	Life Only-C	Life with 5	Life with 1	Life with 1Lif
3	Employee 2	xxx-xx-0002	9/13/1993			9/13/2055		7.96	7.96	7.96	7.95
4	Employee 1	xxx-xx-0001	10/20/1963			10/20/2025		5382.41	5369.97	5327.98	5253.58
5	Employee 4	xxx-xx-0004	3/14/1995			3/14/2057	12/31/2020	10.58	10.58	10.58	10.57
6	Employee 5	xxx-xx-0005	3/17/1988			3/17/2050	12/31/2020	22.77	22.77	22.76	22.74
7	Employee 3	xxx-xx-0003	8/12/1955			1/2/2021	12/31/2020	47.06	46.72	45.71	44.12
8	Employee 6	xxx-xx-0006	10/26/1974			10/26/2036	12/31/2020	35.86	35.84	35.79	35.68
9	Employee 7	xxx-xx-0007	1/27/1971			1/27/2033	12/31/2020	48.49	48.45	48.32	48.06
10	Employee 8	xxx-xx-0008	4/1/1975		11/1/2019	4/1/2037	12/31/2020	8.88	8.88	8.86	8.84
11	Employee 9	xxx-xx-0009	1/23/1991		12/2/2019	1/23/2053	12/31/2020	16.09	16.09	16.08	16.07
12	Employee 10	xxx-xx-0010	1/22/1963			1/22/2025	12/31/2020	19.7	19.65	19.47	19.16
13	Employee 11	xxx-xx-0011	7/26/1961			7/26/2023	12/31/2020	16.92	16.87	16.69	16.4
14	Employee 13	xxx-xx-0013	11/18/1969			11/18/2031	12/31/2020				
15	Employee 14	xxx-xx-0014	8/16/1981			8/16/2043	12/31/2020				
16											

• Params – Information shown in the Parameters report

Sample Participation Termination Optional Forms \ Export Factors file

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#4 – Participant Termination/Optional Forms

D. Sample Reports

- Report output will change for traditional or cash balance plans
- Refer to the DB Reference Manual Chapter 5: Participant Termination Optional Forms for sample cash balance reports and sample calculations

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#4 – Participant Termination/Optional Forms

D. Sample Reports (Continued)

- Single Lump Sum Worksheet: Traditional DB Plan
 - Details on the top of this page include key ages used in the calculation of the 417(e)(3)
 Lump Sum and 415 maximum calculations below
 - For a Cash Balance Plan, this report includes interest crediting rate, interest to Calculation Date and Cash balance account as of Calculation Date

PARTICIPANT TERMINATION / OPTIONAL FORMS SAMPLE PLAN					
	Single Lump Sum Work	sheet for: Employee 1			
	Valuation Date: De Calculation Date				
Date of Birth: Date of Hire: Date of Entry: Vesting Start Date: Years of Vesting: Accrual Start Date: Years Accrued: Total Accrual Years: Normal Form:	04/11/1978 06/01/2003 01/01/2007 01/01/2007 14.00 01/01/2007 14.00 36.00 Life Only	Normal Retirement Date: Date NRA Attained: Early Retirement Date: Vesting Service: Vested Percent: Accrual Service: Discount Period for Sgl Lump Age at Calc Date for Sgl Lump Age at NRD: 415 Service at Calculation Dat 415 Participation at Calculatio	p Sum: 43, 111 days 65, 0 days te: 19.00		
Accrued Benefit Payable at Nor	rmal Retirement Date:		272.17		
Vested Percent:			100.00%		
Vested Accrued Benefit Payabl	e at Normal Retirement Date:		272.17		
		Actuarial Equivalence <u>Assumptions</u>	Alternate Assumptions		
Post-retirement annuity rate:		141.529	N/A		
Pre-retirement interest rate:		5.00%	0.51 / 2.26 / 3.01%		
Present value factor:		0.34693	95.914		
Single lump sum value of veste	d accrued benefit:	13,364	26,105		
IRC §415 maximum lump sum:	:	1,123,149	1,123,149		
Single lump sum value on Calc	ulation Date:	13,364	26,105		

Participant Termination Optional Forms: Single Lump Sum Worksheet

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#4 – Participant Termination/Optional Forms

D. Sample Reports (Continued)

- Calculation Worksheet: Traditional DB Plan
 - o Summarizes participant data used in calculations
 - For a cash balance plan, this report includes Account Value, conversion factors, and optional Cash Balance Basis and Contribution History (options available in the Participant Termination/Optional Forms menu)

PARTICIPANT TERMINATION / OPTIONAL FORMS SAMPLE PLAN						
	Calculation Worksheet for: Employee 1					
	Valuation Date: December 31, 2020 Calculation Date: July 31, 2021					
Name:	Employee 1		SSN:	xxx-xx-0001		
Sex:	M		HCE/Key:	Y/Y		
Date of Birth:	04/11/1978		Primary Status:	Α		
Date of Hire:	06/01/2003		Years Accrued:	14.00		
Date of Entry:	01/01/2007		Total Accrual Years:	36.00		
Date of Termination:	N/A		Vesting Service:	14.00		
Spouse's Date of Birth:			Vested Percent:	100.00%		
Normal Retirement Date:	04/11/2043		Discount Period for Single Lump Sum:	21, 254 days		
Date NRA Attained:	04/11/2043		Age at Calc Date for Single Lump Sum:	43, 111 days		
Early Retirement Date:	N/A		Spouse's Age at NRD for Sgl Lump Sum:	65, 0 days		
415 Valuation Date Service:	18.00		Spouse's Age at Calc Date for Sgl LS:	43, 111 days		
415 Valuation Date Participation:	14.00		Age at NRD for Annuity Payments:	65, 0 months		
415 Normal Ret Date Service:	40.00		Age at Calc Date for Annuity Pmts:	43, 4 months		
415 Normal Ret Date Participation:	36.00		Spouse's Age at NRD for Annuity Pmts:	65, 0 months		
415 Service Start Date:	01/01/2003		Spouse's Age at Calc Dt for Annty Pmts:	43, 4 months		
415 Participation Start Date:	01/01/2007					
Accrual Average Comp:			23.333.33			
Accrued Benefit:			272.17			
Accrued Benefit Add-on:			0.00			
Accrued Benefit Offset			0.00			
Forced Maximum Accrued Benefit:			0.00			
Normal Form:			Life Only			
			Life only			
Emple	oyee History					
Date	Compensation	Hours				
12/31/2020	300,000.00	2080				
12/31/2019	300,000.00	1000				
12/31/2018	300,000.00	2080				

Participant Termination Optional Forms: Calculation Worksheet

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#4 – Participant Termination/Optional Forms

D. Sample Reports (Continued)

- Participant Statement with Optional Forms: Traditional DB Plan
 - Joint and Survivor calculation assumes Spouse is the same age as the Participant If Spouse's Birth is not entered in the Employee \ Basic Data \ DATE screen
 - Optional forms are calculated as of the date entered in Calculation Date field and at Normal Retirement Date.
 - For cash balance plans, the Participant Termination / Optional Forms menu includes options to use CB conversion factors to calculate the optional forms reported here

PARTICIPANT TERMINATION / OPTIONAL FORMS SAMPLE PLAN				
Participant Statement with Optional Forms Employee 1				
Calculation Date: July 31, 2021				
Accrued benefit payable monthly: Vested percentage: Vested accrued benefit payable monthly beginning on your Normal Retirement Date:			\$272.17 100.00% \$272.17*	
* Your vested accrued benefit is payable to for benefits payable in optional forms.	you for your lifetime. Payme	ents will cease on your d	eath. See the schedule below	
Following is your personal information in ou Administrator immediately with the correct is Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date:				
Schedule of benefit payment options: Form of Payment	Payable Now	At Normal <u>Retirement</u>		
Life Only*	65.80	272.17		
Life With 10 Years Certain	65.62	260.54		
Joint and 100% Survivor	61.55	230.53		
Joint and 50% Survivor	63.60	249.63		
Single Lump Sum	26,109	38,520**		
* Plan normal form of payment ** Based on plan factors. Minimum lump sum may be greater, depending on interest rates in effect as of the date of distribution.				

Participant Termination Optional Forms: Participant Statement with Optional Forms

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#4 – Participant Termination/Optional Forms

D. Sample Reports (Continued)

- PBGC Notice of Plan Benefits: Traditional DB Plan, Active participants
 - Includes Termination Date, Extended Term Date, if applicable, Distribution Date and Involuntary Cashout, if applicable, entered from the program menu
 - For Cash Balance Plans, this report includes applicable cash balance interest rates and states that "For Cash Balance Plans, the single lump sum value is the cash balance account value"

NOT	ICE OF PLAN BENEFITS for: Employee 1				
You have previously been informed that the PARTICIPANT TERMINATION / OPTIONAL FORMS SAMPLE PLAN is being terminated as of March 31, 2021. A notice concerning this termination will be filed with the Pension Benefit Guaranty Corporation.					
Following is general information about the	he plan and the termination:				
Name of plan sponsor: EIN of plan sponsor: Name of plan: Plan number: Name, address, phone of plan contact:	99-0000001 PARTICIPANT TERMINATION / OPTIONAL FORMS SAMPLE PLAN 999				
Proposed termination date: March 31, 20 Extended proposed termination date: N/ Proposed distribution date: July 31, 202	A				
	used to calculate your benefit. If any of this information is incorrect or vide the correct information to the plan contact listed above. Failure to do so u receive.				
Date of Birth:	04/11/1978				
Spouse's Date of Birth:	Assumed same age				
Date of Hire:	06/01/2003				
Date of Plan Entry:	01/01/2007				
Date of Termination:	N/A				
Date of Credited Service:	01/01/2007				
Average Annual Compensation:	280,000				
Normal Retirement Date:	04/11/2043				
Early Retirement Date:	N/A				
Normal Form of Payment:	Life Only				
Normal Retirement Benefit:	\$272.17				
above. The Life Annuity form of payme your beneficiary after your death. If you the form of a qualified joint and survivor A joint and survivor annuity provides yo payable to your surviving spouse on you joint and 50% survivor annuity, you wou	ble on your Normal Retirement Date in the Normal Form of Payment indicated in provides you with a monthly benefit for your lifetime, with no payments to are married at the time your benefit commences, your benefit will be paid in annuity unless you, with your spouse's consent, elect another form of payment. u with a monthly benefit for your lifetime, with a percentage of your benefit r death. Payments cease on the death of both you and your spouse. If paid as a ld receive \$249.63 per month for your lifetime. If your spouse survives you, for his/her lifetime. Payments would cease on the death of your spouse. If your cease on your death.				
single sum benefit at the time of distribut	enefit in other forms, including a single sum option. If the amount of your tion is \$5,000.00 or less, your benefit will automatically be paid to you in this screater than \$5,000.00 houser, you cannot receive your benefit in this form				

unless both you and, if you are married, your spouse consent to the distribution.

Participant Termination Optional Forms: Notice of Plan Benefits, Page 1

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#4 – Participant Termination/Optional Forms

D. Sample Reports (Continued)

• PBGC Notice of Plan Benefits: Traditional DB Plan, Active participants (Continued)

			NOTIC	E OF PLAN BENEFITS for: Employee 1					
		according to th		timated amount of your single sum distribution is \$26,105. This benefit was e plan document using the actuarial assumptions, A or B, producing the					
	A)	Interest:	Pre-retirement:	5.00%					
			Post-retirement:	5.00%					
		Mortality:	Pre-retirement:	None					
		-	Post-retirement:	GAR 94 without loads projected to 2002 with scale AA 50%M/50%F					
	B)	Interest:		December 2020 Applicable Interest Rates					
				0.51% for the first 5 payment years,					
				2.26% for the next 15 payment years, and					
				3.01% for the remaining payment years					
		Mortality:	Pre-retirement:	None					
		-	Post-retirement:	2021 Applicable Mortality Table from Notice 2019-67					
	Please note	e that the intere	est rates and mortal	ibution was calculated, the set B assumptions produced the greater benefit. lity may change before your distribution date. A change in interest rates will your single sum benefit, and higher interest rates will produce lower benefits.					
	Other forms of payment offered by the plan include the following:								
	Lif	e Only		Payable for the life of the participant.					
Life With 10 Years Certain			rs Certain	Payable for the life of the participant. If the participant dies before receiving payments for 10 full years, payments will continue to his/her surviving beneficiary for the remainder of the 10-year period and then stop.					
	Joi	nt and 100% S	urvivor	Payable for the life of the participant and his/her beneficiary. Payments cease on the death of both.					
	Joi	nt and 50% Su	rvivor	Payable for the life of the participant. If the participant dies before his/her beneficiary, 50% of the benefit will continue for the life of the beneficiary.					
	Sin	gle Lump Sun	1	This is a one-time payment of the lump sum equivalent of the plan's normal form of benefit.					

Participant Termination Optional Forms: Notice of Plan Benefits, Page 2

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#4 – Participant Termination/Optional Forms

E. References

• FAQs



- DB Reference Manual
 - o Chapter 5: Participant Termination/Optional Forms
- Reports Reference Manual
 - o DB Reports
- 2020 DB Top Tips
 #8 Plan Term Optional Forms Enhancements for CB Plans

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#4 – Participant Termination/Optional Forms

ASC Since 1981	
Actuarial Systems Corporation	
Top Tips for DB Valuation System	
Tuesday, June 30, 2020	
#1 – Changing Valuation Dates	
#2 – Coding Postponed Retirees	
#3 – CARES Act for DB Plans	
#4 – Using Force All Benefits	
#5 – Exporting Plan Specifications with ASCRIPT	
#6 – Importing Plan Specifications from DGEM Documents	
#7 – At-risk Coding for 1st Year Cash Balance Plans	_
#8 – Plan Termination/Optional Forms Enhancements for Cash Balance Plans	
#9 – Interest Rate Basics for Cash Balance Plans	
#10 – ASC Defined Benefit Learning Resources	
	93

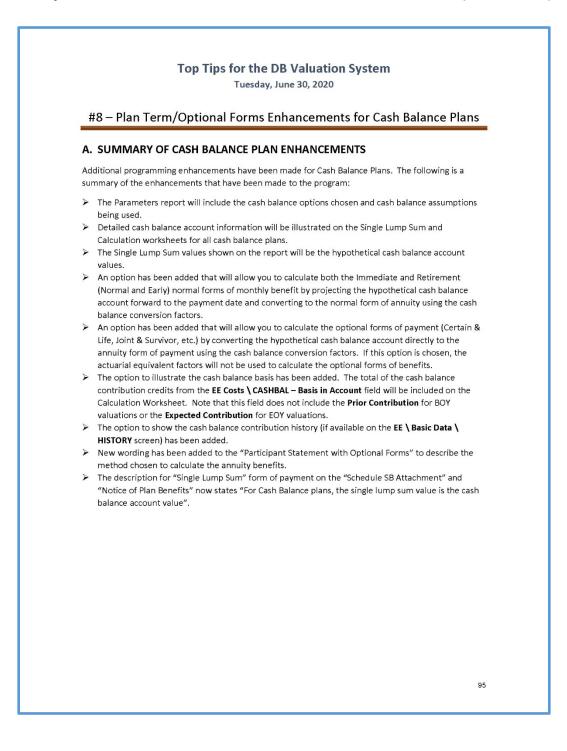
Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

	Top Tips for the DB Valuation System Tuesday, June 30, 2020
#8·	– Plan Term/Optional Forms Enhancements for Cash Balance Plans
Topic	Roadmap
Α.	Summary of Cash Balance Enhancements
В.	Accessing the Program
C.	Participant Termination / Optional Forms Menu
D.	Summary of Cash Balance Options
E.	Sample Cash Balance Report
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#4 – Participant Termination/Optional Forms



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#4 – Participant Termination/Optional Forms

B. ACCESSING THE PI	ROGRAM
Lump sum and optLump-sum amount	ional form calculations for individual participants is for all participants in an active or terminated plan an benefits for active, terminated and retired participants in PBGC covered
To access these reports, go Forms	to ASC Main Menu > Reports > Actuarial > Participant Termination/Optiona
Per Access Calculators Complement Per Complement Per Complement II	ports Litites System Window Help Valuation Professore Statements F Advand Canue Requests Sudies and Proposite E Reporter El Mandatoy Contributions

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

Individual Employees Report Options Parameters Single Lump Sum Worksheet Calculation Worksheet Partic. Statement with Optional Forms Present Value Report Schedule SB Attachment PBGC Benefit Commitment - Active PBGC Benefit Commitment - Active Vest everyone 100% Include Status Codes ABCT Cash Balance Options	Ne Ne ENumber Calculation Options Liquidition Date 07/01/2020 Use only if no employee termination date Recalculate acrued benefits Store recalculated values Present Values Do not recalculate Nearest Year Nearest Year Nearest Year	Life with 5 Years Certain Life with 10 Years Certain Life with 10 Years Certain Life with 15 Years Certain Life with 15 Years Certain Joint and 75% Survivor Joint and 56% Jourvivor Joint and 56% JOUNG Survivor Joint and 56% JOUNG Survivor Joint and 56% JOUNG Survivor Joint and 50% Survivor Joint and 50% Survivor Joint and 50% Survivor Joint and 50% JOUNG Survivor Joung Survivor Joint and 50% JOUNG Survivor Jung Survivo
 ✓ Use CB conv factors for Imm and Ret bene ✓ Use CB conv factors for all opt forms of pa ✓ Show cash balance basis ✓ Show cash balance contribution history 	fit payment syment <u>Printer Setup</u>	OK Cancel Help

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

D. SUMMARY OF CASH BALANCE P	
OPTION Use CB conv factors for Imm and Ret benefit payment	DESCRIPTION Check this box to have the 'Payable Now', Early (if applicable) and Normal Retirement plan annuity normal forms of payment calculated by projecting the cash balance account to the date of payment and converting to an annuity based on the Cash Balance Assumptions. (Assumptions \ CASHBAL screen). Unless Use CB conv factors for all opt forms of payment is checked, all other optional forms of payment will be calculated using the actuarial equivalence assumptions as coded on the •
Use CB conv factors for all opt forms of payment	Assumptions \ ACTEQUIV screen. Check this box to have all annuity forms of payment calculated by projecting the cash balance account to the date of payment and converting to an annuity based on the Cash Balance Assumptions. (Assumptions \ CASHBAL screen). The actuarial equivalence assumptions will not be used to calculate the optional forms of payment.
Show cash balance basis	If this box is checked, the total of the cash balance contribution credits from the Costs \CASHBAL – Basis in Account field will be included on the Calculation Worksheet. This field does not include the Prior Contribution for BOY valuations or the Expected Contribution for EOY valuations.
Show cash balance contribution history	If this box is checked, the history of the cash balance contribution credits will be illustrated on the Calculation Worksheet. The historical cash balance credits are found in the Basic Data \HISTORY – Ext A screens.

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

E CAL	MPLE CASH BALANCE PLAN REPORT
L. JAI	
	n Date – 12/31/2019
	re no early retirement provisions lance Assumptions:
	Current Interest Rate – 4.00%
	Post-Retirement Interest Rate – 5.50%
	Post-Retirement Mortality – RP19C U
Actuaria	al Equivalence Assumptions:
	Pre and Post-Retirement Interest Rate – 6.00%
	Post-Retirement Mortality – RP19C U
Sample	Participant Information:
	Name – Nancy
	Age Nearest as of Valuation Date – 56
	Age as of Calculation Date – 56 years, 107 days Cash balance account as of 12/31/2019 valuation date – 4,273.94
	Age at Retirement – 62, 16 days
	Age Nearest at Retirement – 62
	Age Nearest at Calculation Date – 56
	Spouse assumed to be the same age
	mination / Optional Forms elections:
	Recalculate Present Values – To the nearest day
	Show Cash Balance Basis – Yes
	Show cash balance contribution history – Yes Liquidation Date – 07/01/2020
	Equidation Date = 07/01/2020
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Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

. SAN		
	/IPLE CASH BALANCE PLAN REPORT (con	tinued)
AN PA	RAMETERS PAGE	
	The Cash Balance Options questions have been adde	
• 1	The Parameters page now includes the cash balance	
	Combo Cash B Parameters ()	
	Plan Year:	January 1, 2019 to December 31, 2019
	Valuation Date:	December 31, 2019
	Liquidation date: Use liquidation date for all participants	July 1, 2020
	Recalculate accrued benefits? Store recalculations?	Yes No
	Included status codes: Vest all participants at 100%?	ABCT No
	Recalculate present values?	To the nearest day
	Use CB Conversion Factors for Imm and Ret benefit payments?	No
	Show Cash Balance Basis?	Yes
	Show cash balance contribution history?	Yes
	Cash balance assumptions Pre-retirement current interest rate:	4.00%
	Post-retirement conversion interest rate: Post-retirement mortality:	5.50% RP19C U
	Actuarial equivalence assumptions	N/A
	Actuarial equivalence equal to 417(e)?	N/A 6.00%
	Pre-retirement interest: Post-retirement interest:	6.00%
	Pre-retirement mortality: Post-retirement mortality:	None RP19C U
	Plan normal form of payment:	Life Only
	PBGC Benefit Commitments	
	Plan termination date:	March 1, 2020
	Extended plan termination date:	

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

Тор Т	ips for the DB Tuesday, June	Valuation System a 30, 2020	
#8 – Plan Term/Optio	nal Forms Enha	ancements for Cash I	Balance Plans
E. SAMPLE CASH BALANC	E PLAN REPORT	(continued)	
SINGLE LUMP SUM WORKSHEET			
automatic; not an option	sh balance hypotheti	cal account balance informati if 'Recalculate Present Value:	
	ill not be used and wi ssumed that the Cash	ll be set to N/A.The 417(e)(Balance plan meets the hybri	
	Combo Cas	h Balance Plan	
	Single Lump Sum	Worksheet for: Nancy	
		December 31, 2019 Date: July 1, 2020	
Date of Birth: Date of Hire: Date of Entry: Vering Start Date: Years of Vering: Accrual Start Date: Years Accruad: Total Accrual Years: Normal Form:	03/16/1964 08/01/2016 10/01/2017 01/01/2017 3.00 10/01/2017 3.00 8.25 Life Only	Normal Retirement Date: Date NRA Attained: Early Retirement Date: Vesting Service: Vested Percent: Accrual Service: Discourt Period: Age at Calculation Date: 415 Service at Calculation Date: 415 Participation at Calculation D	04/01/2026 03/16/2026 N/A Total service 100.00% Participation service 5, 258 days 56, 107 days 4.00 Pate: 4.00
Accrued Benefit Payable at N	Jormal Retirement Date:		35.12
Vested Percent: Vested Accrued Benefit Paya	able at Normal Retirement Dat	e:	100.00% 35.12
		Cash Balance Account and Assumptions	Alternate Assumptions
Interest crediting rate:		4.00%	N/A
Cash balance account as of 1	2/31/2019:	4,273.94	N/A
Interest to 07/01/2020:		85.34	N/A
Cash balance account as of 0	7/01/2020:	4,359.28	N/A
Vested cash balance account		4,359.28	N/A
IRC §415 maximum lump su		209,258	N/A
Single lump sum value as of	07/01/2020:	4,359.28	N/A

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

e. sami	PLE CASH BALANCE PLAN REPORT (continued)
SINGLE LU	MP SUM WORKSHEET (continued)
A	When 'Recalculate Present Values' is set to 'Nearest Day', the interest credit to 07/01/2020 will be calculated as follows: $4,273.94 \times 1.04^{(184/365)} - 4,273.94 = 85.34$, where 184 is the date difference between 7/1/2020 and 12/31/2019. Additional examples for other 'Present Value' settings will be illustrated at the end of this presentation.
À	Note that the 'Single lump sum value as of 07/01/2020' is equal to the hypothetical account balance as of the valuation date plus interest to the calculation date.

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#4 – Participant Termination/Optional Forms

Тор Ті	ps for the DB Tuesday, Ju	Valuation System	
#8 – Plan Term/Optior	al Forms Enh	nancements for Casł	n Balance Plans
. SAMPLE CASH BALANC	E PLAN REPOR	Γ (continued)	
ALCULATION WORKSHEET			
If 'Show cash balance basi	s' is checked, the '1	Total of Employer Cash Balan	ce Contribution
Credits', will be illustrated	. This amount com	es from the 'Basis in Accoun	t' field found on the EE
\ Costs \ CASHBAL screen.			
The 'Current Interest Cred			
 Both the Cash Balance Col will be illustrated. 	iversion APK at NR	D and Cash Balance APR as o	r the Calculation Date
	ribution history' is	checked, the history of the c	ash balance
		historical cash balance credi	
Basic Data \ HISTORY scre			
	Combo Cash F	Balance Plan	
	Calculation Works	heet for: Nancy	
	Valuation Date: De Calculation Date		
Name:	Nancy	SSN:	xxx-xx-0002
Sex: Date of Birth:	F 03/16/1964	HCE/Key: Primary Status:	N/N A
Date of Hire: Date of Entry:	08/01/2016 10/01/2017	Years Accrued: Total Accrual Years:	3.00 8.25
Date of Termination:	N/A	Vesting Service:	3.00
Spouse's Date of Birth: Normal Retirement Date:	04/01/2026	Vested Percent: Discount Period:	100.00% 5, 258 days
Date NRA Attained: Early Retirement Date:	03/16/2026 N/A	Age at Calculation Date: Spouse's Age at NRD:	56, 107 days 62, 16 days
415 Valuation Date Service:	3.00	Spouse's Age at Calc Date:	56, 107 days
415 Valuation Date Participation: 415 Normal Ret Date Service:	3.00 9.00		
415 Normal Ret Date Participation: 415 Service Start Date:	9.00 01/01/2017		
415 Participation Start Date:	01/01/2017		
Total of Employer Cash Balance Con	tribution Credits:	2,400.00	
Account Value as of the Distribution Current Interest Crediting Rate:	Date:	4,359.28 4.00%	
Cash Balance Conversion at NRD:		154.000	
Cash Balance APR as of the Calculat Accrued Benefit:	on Date:	170.588 35.12	
Accrued Benefit Add-on: Accrued Benefit Offset:		0.00	
Forced Maximum Accrued Benefit:		0.00	
Normal Form:		Life Only	
Date	Employee Hist Compensation Ho	ory urs CB Contribution Credits	
12/31/2019 12/31/2018	37,039.88 20	1,742.00	
	37,039.88 19	020 1,200.00	

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#4 – Participant Termination/Optional Forms

Top Tips fo	r the DB Valuation Sy	/stem	
Т	uesday, June 30, 2020		
#8 – Plan Term/Optional Fo	orms Enhancements f	or Cash Balanc	e Plans
E. SAMPLE CASH BALANCE PLAI	N REPORT (continued)		
PARTICIPANT STATEMENT WITH OPTION and Ret Benefit payments not checked	NAL FORMS – Example 1 – Use	CB Conversion Facto	ors for Imm
		_	
Cash Balance	Options inv factors for Imm and Ret benefit payment		
Use CB co	inv factors for min and net benefit payment inv factors for all opt forms of payment a balance basis		
	balance contribution history		
Presi	Combo Cash Balance Plan cipant Statement with Optional Forms	NT	
Parti	Calculation Date: July 1, 2020	wancy	
	Calculation Date: July 1, 2020		
Accrued benefit payable monthly: Vested percentage:			\$35.12 100.00%
Vested accrued benefit pavable m			
beginning on your Normal Retirer			\$35.12*
beginning on your Normal Retirer * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc	ment Date: payable to you for your lifetime. Paymorms. The benefit payable monthly beg count forward to retirement using the C NRD. All other monthly benefit form	inning on your Normal Re urrent Interest Crediting ra	ath. See the sch tirement Date i ate and then div
beginning on your Normal Retirer * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR @ normal form of payment at NRD. Following is your personal inform	ment Date: payable to you for your lifetime. Paymorms. The benefit payable monthly beg count forward to retirement using the C NRD. All other monthly benefit form	inning on your Normal Re urrent Interest Crediting ra is of payment are the actua primation is incorrect, pleas	ath. See the sch tirement Date i ate and then div rial equivalent se contact the Pl
beginning on your Normal Retiren * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR @ normal form of payment at NRD. Following is your personal inform Administrator immediately with th Date of Birth:	ment Date: payable to you for your lifetime. Paymy ymms. The benefit payable monthly beg count forward to retirement using the C NRD. All other monthly benefit form hation in our records. If any of this info	inning on your Normal Re urrent Interest Crediting ra is of payment are the actua primation is incorrect, pleas	ath. See the sch tirement Date is ate and then div rial equivalent of se contact the Pl
beginning on your Normal Retires * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR (2) normal form of payment at NRD. Following is your personal inform Administrator immediately with th Date of Birth: Spouse's Date of Birth: Date of Hire:	ment Date: payable to you for your lifetime. Paymy ymms. The benefit payable monthly beg count forward to retirement using the C NRD. All other monthly benefit form hation in our records. If any of this info	iming on your Normal Re urrent Interest Crediting ra is of payment are the actual ormation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016	ath. See the sch tirement Date is ate and then div rial equivalent of se contact the Pl
beginning on your Normal Retires * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR (a normal form of payment at NRD. Following is your personal inform Administrator immediately with th Date of Birth: Spouse' Date of Birth:	ment Date: payable to you for your lifetime. Paymy ymms. The benefit payable monthly beg count forward to retirement using the C NRD. All other monthly benefit form hation in our records. If any of this info	iming on your Normal Re urrent Interest Crediting ra is of payment are the actua ormation is incorrect, pleas o could affect the amount o 03/16/1964	ath. See the sch tirement Date is ate and then div rial equivalent of se contact the Pl
beginning on your Normal Retiren * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR (2) normal form of payment at NRD. Following is your personal inform Administrator immediately with th Date of Birth: Spouse's Date of Birth: Date of Hire:	ment Date: payable to you for your lifetime. Paymorns. The benefit payable monthly beg count forward to retirement using the C 0 NRD. All other monthly benefit form antion in our records. If any of this info he correct information. Failure to do so	inning on your Normal Re urrent Interest Crediting ra is of payment are the actual primation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016 04/01/2026	ath. See the sch tirement Date is ate and then div rial equivalent of se contact the Pl
beginning on your Normal Retiren * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR. @ normal form of payment at NRD. Following is your personal inform Administrator immediately with th Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date:	ment Date: payable to you for your lifetime. Paymorns. The benefit payable monthly beg count forward to retirement using the C 0 NRD. All other monthly benefit form antion in our records. If any of this info he correct information. Failure to do so	iming on your Normal Re urrent Interest Crediting ra is of payment are the actual ormation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016	ath. See the sch tirement Date is ate and then div rial equivalent of se contact the Pl
beginning on your Normal Retires * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR (a normal form of payment at NRD. Following is your personal inform Administrator immediately with th Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment option	ment Date: payable to you for your lifetime. Paymorns. The benefit payable monthly beg count forward to retirement using the C NRD. All other monthly benefit form nation in our records. If any of this infi he correct information. Failure to do so	iming on your Normal Re urrent Interest Crediting ra is of payment are the actual primation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016 04/01/2026 At Normal	th. See the sch tirement Date is ate and then divi rial equivalent of se contact the Pl
beginning on your Normal Retires * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR (a normal form of payment at NRD. Following is your personal inform Administrator immediately with th Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment optic Form of Payment	ment Date: payable to you for your lifetime. Paymo mms. The benefit payable monthly beg count forward to retirement using the C NRD. All other monthly benefit form nation in our records. If any of this infi- he correct information. Failure to do so ons: <u>Payable Now</u>	iming on your Normal Re urrent Interest Crediting ra is of payment are the actual ormation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u>	th. See the sche tirement Date is ate and then divi rial equivalent of se contact the Pla
beginning on your Normal Retiren * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR (2) normal form of payment at NRD. Following is your personal inform Administrator immediately with th Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment option <u>Form of Payment</u> Life Only*	ment Date: payable to you for your lifetime. Paymorns. The benefit payable monthly beg count forward to retirement using the C) NRD. All other monthly benefit form action in our records. If any of this info he correct information. Failure to do so ons: <u>Payable Now</u> 22.87	iming on your Normal Re urrent Interest Crediting ra is of payment are the actual ormation is incorrect, pleas could affect the amount of 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12	th. See the sche tirement Date is ate and then divi rial equivalent of se contact the Pla
beginning on your Normal Retiren * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR (@ normal form of payment at NRD. Following is your personal inform Administrator immediately with th Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment optic Form of Payment Life Only* Life With 15 Years Certain	ment Date: payable to you for your lifetime. Paymorns. The benefit payable monthly beg count forward to retirement using the C NRD. All other monthly benefit form nation in our records. If any of this infi he correct information. Failure to do so ons: <u>Payable Now</u> 22.87 22.40	iming on your Normal Re urrent Interest Crediting rates of payment are the actual primation is incorrect, please o could affect the amount of 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.59	th. See the sche tirement Date is ate and then divi rial equivalent of se contact the Pla
beginning on your Normal Retires * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR (a normal form of payment at NRD). Following is your personal inform Administrator immediately with th Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment optic Form of Payment Life Only* Life With 15 Years Certain Joint and 100% Survivor	ment Date: payable to you for your lifetime. Paymore payable to you for your lifetime. Paymore count forward to retirement using the C NRD. All other monthly benefit form nation in our records. If any of this infi- the correct information. Failure to do so ons: <u>Payable Now</u> 22.87 22.40 20.93	iming on your Normal Re urrent Interest Crediting rates of payment are the actual primation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.59 31.22	th. See the sche tirement Date is ate and then divi rial equivalent o se contact the Pla
beginning on your Normal Retiren * Your vested accrued benefit is p for benefits payable in optional fo by projecting the cash balance acc Cash Balance Conversion APR (2) normal form of payment at NRD. Following is your personal inform Administrator immediately with th Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment optic Form of Payment Life Only* Life With 15 Years Certain Joint and 100% Survivor Single Lump Sum	ment Date: payable to you for your lifetime. Paymore payable to you for your lifetime. Paymore count forward to retirement using the C NRD. All other monthly benefit form nation in our records. If any of this infi- the correct information. Failure to do so ons: <u>Payable Now</u> 22.87 22.40 20.93	iming on your Normal Re urrent Interest Crediting rates of payment are the actual primation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.59 31.22	th. See the sche tirement Date is ate and then divi rial equivalent o se contact the Pla

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#4 – Participant Termination/Optional Forms

E. SAMPLE CASH BALANCE PLAN REPORT PARTICIPANT STATEMENT WITH OPTIONAL FORMS - Cash Balance Options Use CB conv factors for Imm Use CB conv factors for Imm Imm Imm Imm Imm Imm Imm Imm	- Example 1 Calculated and Ret benefit payment to forms of payment	At Normal Retirement 35.12 33.59
Cash Balance Options Use CB corv factors for lim Use CB corv factors for lim Show cash balance basis Show cash balance contribut Show cash balance contribut The Only* Life With 15 Years Certain Joint and 100% Survivor	and Ret benefit payment t forms of payment on history <u>Payable Now</u> 22.87 22.40	At Normal Retirement 35.12
Life Only* Life With 15 Years Certain Joint and 100% Survivor	22.87 22.40	<u>Retirement</u> 35.12
Life With 15 Years Certain Joint and 100% Survivor	22.40	
Joint and 100% Survivor		33.59
	20.93	
		31.22
	4,359	5,408
Actuarial Equivalence APR's - Based on 6.00% int		
Payable Life Only 161.9	Now - 56 964	NRA - 62 147.094
15C&C 165.3		153.812
Joint and 100% Survivor 176.	997	165.477 154.000
Life Only Cash Balance Conversion Factor		134.000
Use CB Conversion Factors for Imm and Ret bene Use CB Conversion Factors for all Opt forms of pa		
If 'Use CB Conversion Factors for Imm and Re	t benefit payments	' is not checked, the Paya
Now, Early Retirement (if applicable), and all	Optional forms of p	payment will be the actua
equivalent of the normal form of payment at		
Note the blue highlighted statement at the to Second This language will show an element diagonality.		
Forms'. This language will change depending NRA – 62 Calculations	on the options cho	sen.
 Life Only (Normal Form) = 35.12 (From 	n FE \ Benefits \ A(
 15C&C = 35.12 x 147.094 / 153.812 = 		CONDENT - Accided Dene
 Joint and 100% Survivor = 35.12 x 147 		1.22
 Single Lump Sum = 4,273.94 x 1.04^6 		
Note: interest crediting to retiremen		s and is calculated based
balance as of the valuation date		
Payable Now Calculations		
 Discount Period = 5 years, 258 days = 		
 Life Only = 35.12 x 147.094 / 1.06^{5.7} 	⁰⁶⁸⁴⁹ / 161.964 = 2	2.87
 15C&C = 22.87 x 161.964 / 165.376 = 	22.40	
 Joint and 100% Survivor = 22.87 x 163 	L.964 / 176.997 = 2	0.93

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#4 – Participant Termination/Optional Forms

	Top Tips for t	he DB Valuat	ion System	
	Tues	day, June 30, 202	20	
				x . x
#8 – Pla	n Term/Optional Form	is Enhancem	ents for Cas	sh Balance Plans
5 CAAADI				
	E CASH BALANCE PLAN R		-	
	T STATEMENT WITH OPTIONAL efit payments is checked; Use Cl			
and Net Dent	ent payments is thethed, use th	S convinctors for a	an opt forms of p	Sayment is NOT checked
	Cash Balance Option	ns	-	
		tors for Imm and Ret benefit; tors for all opt forms of paym		
	Show cash balar	tors for all opt forms of paym ice basis ice contribution history	ent	
	Provide Cash Dalar	ere comproport month		
		Cash Balance Plan		
		nent with Optional Forms 1 tion Date: July 1, 2020	wancy	
	Calcul	uon Date. July 1, 2020		
	Accrued benefit payable monthly:			\$35.12
	Vested percentage: Vested accrued benefit payable monthly			100.00%
				605 100
	beginning on your Normal Retirement Date:	on for your lifetime Parm	ante mill carea on vour d	\$35.12*
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forms.			leath. See the schedule below
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forms. The normal form of benefit payable monthly I balance account forward to retirement using d	eginning on your Normal :	Retirement Date is calcu	leath. See the schedule below
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forms. The normal form of benefit payable monthly balance account forward to retriement using d Conversion APR @ NRD.	eginning on your Normal i ae Current Interest Creditin	Retirement Date is calcu g rate and then dividing	leath. See the schedule below alated by projecting the cash by the Cash Balance
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to ye for benefits payable in optional forms. The normal form of benefit payable monthly I balance account forward to retirement using the Conversion APR @ NRD. The normal form of benefit payable monthly I account forward to the Calculation Date using	peginning on your Normal i ae Current Interest Creditin peginning on your 'Payable	Retirement Date is calcu ig rate and then dividing Now' Date is calculated	leath. See the schedule below ilated by projecting the cash by the Cash Balance d by projecting the cash balance
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forms. The normal form of benefit payable monthly balance account forward to retirement using d Conversion APR @ NRD. The normal form of benefit payable monthly la account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are th	eginning on your Normal : te Current Interest Creditin eginning on your 'Payable the Current Interest Credit e actuarial equivalent of th	Retirement Date is calcu g rate and then dividing Now" Date is calculated ting rate and then dividir e plan normal form of p:	leath. See the schedule below lated by projecting the cash by the Cash Balance d by projecting the cash balance ng by the Cash Balance APR as ayment.
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to ye for benefits payable in optional forms. The normal form of benefit payable monthly I balance account forward to retirement using the Conversion APR @ NRD. The normal form of benefit payable monthly account forward to the Calculation Date using of the calculation date.	eginning on your Normal e Current Interest Creditin beginning on your 'Payable the Current Interest Credit e actuarial equivalent of th records. If any of this infr	Retirement Date is calcu g rate and then dividing • Now' Date is calculated ting rate and then dividir e plan normal form of promation is incorrect, pla	leath. See the schedule below ilated by projecting the cash by the Cash Balance d by projecting the cash balance ang by the Cash Balance APR as asyment. asize contact the Plan
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forma: The normal form of benefit payable monthly I balance account forward to retriement using d Conversion APR @ NRD. The normal form of benefit payable monthly account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are the Following is your personal information in our Administrator immediately with the correct in Date of Birth:	eginning on your Normal e Current Interest Creditin beginning on your 'Payable the Current Interest Credit e actuarial equivalent of th records. If any of this infr	Retirement Date is calcu g rate and then dividing • Now' Date is calculated ting rate and then dividir e plan normal form of promation is incorrect, pla	leath. See the schedule below ilated by projecting the cash by the Cash Balance d by projecting the cash balance ing by the Cash Balance APR as asyment. here contact the Plan it of your benefit.
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to ye for benefits payable in optional forms. The normal form of benefit payable monthly I balance account forward to retirement using d Conversion AFR @ NRD. The normal form of benefit payable monthly account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are th Following is your personal information in our Administrator immediately with the correct in Date of Birth: Sponse's Date of Birth: Date of Birth:	eginning on your Normal e Current Interest Creditin beginning on your 'Payable the Current Interest Credit e actuarial equivalent of th records. If any of this infr	Retirement Date is calcu grate and then dividing Now' Date is calculated ting rate and then dividir e plan normal form of pr sumation is incorrect, ple could affect the amount	leath. See the schedule below ilated by projecting the cash by the Cash Balance d by projecting the cash balance ng by the Cash Balance APR as ayment. ayment.
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forma: The normal form of benefit payable monthly I balance account forward to retirement using d Conversion APR @ NRD. The normal form of benefit payable monthly account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are th Following is your personal information in our Administrator immediately with the correct in Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date:	eginning on your Normal e Current Interest Creditin beginning on your 'Payable the Current Interest Credit e actuarial equivalent of th records. If any of this infr	Retirement Date is calcu g rate and then dividing (Now' Date is calculate: ting rate and then dividir e plan normal form of pp sumation is incorrect, ple o could affect the amoun 03/16/1964 08/01/2016	leath. See the schedule below illated by projecting the cash by the Cash Balance d by projecting the cash balance g by the Cash Balance APR as ayment. ayment.
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forma: The normal form of benefit payable monthly I balance account forward to retriement using the Conversion APR @ NRD. The normal form of benefit payable monthly account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are the Following is your personal information in our Administrator immediately with the correct in Date of Birth: Sponse's Date of Birth: Date of Hirie: Normal Retirement Date: Schedule of benefit payment options:	seginning on your Normal : as Current Interest Creditin seginning on your 'Payable the Current Interest Credit e actuarial equivalent of th records. If any of this infe formation. Failure to do so	Retirement Date is calcu g rate and then dividing s Now' Date is calculate: ing rate and then dividir e plan normal form of p manton is incorrect, plan o could affect the amount 03/16/1964 08/01/2016 04/01/2016	leath. See the schedule below illated by projecting the cash by the Cash Balance d by projecting the cash balance g by the Cash Balance APR as ayment. ayment.
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forma. The normal form of benefit payable monthly I balance account forward to retriement using d Conversion APR @ NRD. The normal form of benefit payable monthly account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are th Following is your personal information in our Administrator immediately with the correct in Date of Birth: Sponse's Date of Birth: Normal Retirement Date: Schedule of benefit payment options: <u>Form of Payment</u>	eginning on your Normal te Current Interest Creditin orginning on your 'Payable the Current Interest Credit e actuarial equivalent of th records. If any of this inf formation. Failure to do so	Retirement Date is calcu g rate and then dividing Now' Date is calculated ting rate and then dividir e plan normal form of pp ormation is incorrect, ple o could affect the amoun 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u>	leath. See the schedule below illated by projecting the cash by the Cash Balance d by projecting the cash balance g by the Cash Balance APR as ayment. ayment.
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forma: The normal form of benefit payable monthly I balance account forward to retriement using the Conversion APR @ NRD. The normal form of benefit payable monthly account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are the Following is your personal information in our Administrator immediately with the correct in Date of Birth: Sponse's Date of Birth: Date of Hirie: Normal Retirement Date: Schedule of benefit payment options:	seginning on your Normal : as Current Interest Creditin seginning on your 'Payable the Current Interest Credit e actuarial equivalent of th records. If any of this infe formation. Failure to do so	Retirement Date is calcu g rate and then dividing s Now' Date is calculate: ing rate and then dividir e plan normal form of p manton is incorrect, plan o could affect the amount 03/16/1964 08/01/2016 04/01/2016	leath. See the schedule below illated by projecting the cash by the Cash Balance d by projecting the cash balance g by the Cash Balance APR as ayment. ayment.
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to ye for benefits payable in optional forms. The normal form of benefit payable monthly I balance account forward to retirement using d Conversion APR @ NRD. The normal form of benefit payable monthly I account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are the Following is your personal information in our Administrator immediately with the correct in Date of Birth: Sponse's Date of Birth: Date of Birth: Normal Retirement Date: Schedule of benefit payment options: <u>Form of Payment</u> Life Only* Life With 15 Years Certain	Peginning on your Normal ac Current Interest Creditin beginning on your 'Payable the Current Interest Credit e actuarial equivalent of th records. If any of this info formation. Failure to do so <u>Payable Now</u> 25.55 25.02	Retirement Date is calcu ug rate and then dividing Now' Date is calculated ting rate and then dividin e plan normal form of pr pomation is incorrect, ple o could affect the amount 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.59	leath. See the schedule below illated by projecting the cash by the Cash Balance d by projecting the cash balance g by the Cash Balance APR as ayment. ayment.
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forma. The normal form of benefit payable monthly I balance account forward to retirement using d Conversion APR @ NRD. The normal form of benefit payable monthly account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are th Following is your personal information in our Administrator immediately with the correct in Date of Birth: Spouse's Date of Birth: Normal Retirement Date: Schedule of benefit payment options: <u>Form of Payment</u> Life Only*	eginning on your Normal le Current Interest Creditin orginning on your 'Payable the Current Interest Credit e actuarial equivalent of th records. If any of this inf formation. Failure to do so <u>Payable Now</u> 25.55	Retirement Date is calcu g rate and then dividing a Now' Date is calculated ting rate and then dividin e plan normal form of pro- ormation is incorrect, ple o could affect the amoun 03/16/1964 08:01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12	leath. See the schedule below illated by projecting the cash by the Cash Balance d by projecting the cash balance g by the Cash Balance APR as ayment. ayment.
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forma. The normal form of benefit payable monthly I balance account forward to retriement using d Conversion APR @ NRD. The normal form of benefit payable monthly account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are th Following is your personal information in our Administrator immediately with the correct in Date of Birth: Sponse's Date of Birth: Normal Retirement Date: Schedule of benefit payment options: <u>Form of Payment</u> Life Only* Life With 15 Years Certain Joint and 100% Survivor Single Lump Sum	Peginning on your Normal the Current Interest Creditin orginning on your 'Payable the Current Interest Credit e actuarial equivalent of the records. If any of this info formation. Failure to do so <u>Payable Now</u> 25.55 25.02 23.38	Retirement Date is calcu grate and then dividing e Now' Date is calculated ting rate and then dividir e plan normal form of pr smathon is incorrect, ple o could affect the amoun 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.59 31.22	leath. See the schedule below illated by projecting the cash by the Cash Balance d by projecting the cash balance g by the Cash Balance APR as ayment. ayment.
	beginning on your Normal Retirement Date: * Your vested accrued benefit is payable to yo for benefits payable in optional forms. The normal form of benefit payable monthly balance account forward to retirement using th Conversion APR @ NRD. The normal form of benefit payable monthly account forward to the Calculation Date using of the calculation date. All Optional monthly forms of payment are th Following is your personal information in our Administrator immediately with the correct in Date of Birth: Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment options: Form of Payment Life Only* Life With 15 Years Certain Joint and 100% Survivor	Peginning on your Normal the Current Interest Creditin orginning on your 'Payable the Current Interest Credit e actuarial equivalent of the records. If any of this info formation. Failure to do so <u>Payable Now</u> 25.55 25.02 23.38	Retirement Date is calcu grate and then dividing e Now' Date is calculated ting rate and then dividir e plan normal form of pr smathon is incorrect, ple o could affect the amoun 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.59 31.22	leath. See the schedule below illated by projecting the cash by the Cash Balance d by projecting the cash balance g by the Cash Balance APR as ayment. ayment.

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

	Top Tips for the	DB Valuation Sy	stem	
	 Tuesday	, June 30, 2020		
#8-	Plan Term/Optional Forms	Enhancements fo	or Cash Balan	ce Plans
			or odon balan	
F SAN	MPLE CASH BALANCE PLAN REP	ORT (continued)		
PARTICI	PANT STATEMENT WITH OPTIONAL FOR	RMS – Example 2 Calcula	ations	
	Cash Balance Options			
	✓ Use CB conv factors f Use CB conv factors i Show cash balance or Show cash balance or			
			At Normal	
	Form of Payment	Payable Now	Retirement	
	Life Only*	25.55	35.12	
	Life With 15 Years Certain	25.02	33.59	
	Joint and 100% Survivor	23.38	31.22	
	Single Lump Sum	4,359	5,408	
	Actuarial Equivalence APR's Based on 6.0			
	Life Only	Payable Now - 56 161.964	NRA - 62 147.094	
	15C&C Joint and 100% Survivor	165.376	153.812	
		176.997	165.477	
	Life Only Cash Balance Conversion Facto		154.000	
	Use CB Conversion Factors for Imm and Use CB Conversion Factors for all Opt fo			
	If 'Use CB Conversion Factors for Imm ar			
	and Early Retirement (if applicable) norn hypothetical account balance to a benefi			-
	payment will be the actuarial equivalent			
	and Payable Now calculation dates.		·····	
	Note the blue highlighted statement at t			Optional
	Forms'. This language will change deper		isen.	
-	 NRA – 62 Calculations (Same as Example Life Only (Normal Form) = 35.12 		CREENE - Accrued	Repetit)
	 15C&C = 35.12 x 147.094 / 153.8 			beneng
	 Joint and 100% Survivor = 35.12 		1.22	
	 Single Lump Sum = 4,273.94 x 1. 	04^6 = 5,407.90		
	Note: interest crediting to retire	ment uses nearest year	s and is calculated	based on the
	balance as of the valuation date			
2	Payable Now Calculations			
	 Life Only = 4,359.28 / 170.588 = 		e Now Single Lump	Sum)
	 15C&C = 25.55 x 161.964 / 165.3 Joint and 100% Survivor = 25.55 		2 20	
	 Joint and 100% Survivor = 25.55 Single Lump Sum = 4,359 (from S 			

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

#8 – Plan Term/Optional I	Tuesday, June 30, 202 Forms Enhancem		Balance Plans
			i balance i lans
E. SAMPLE CASH BALANCE PL	AN REPORT (contin	ued)	
PARTICIPANT STATEMENT WITH OPTIC and Ret Benefit payments and Use CB			
Use CE Use CE Show o	nce Options 3 conv factors for Imm and Ret benefit 3 conv factors for all opt forms of paym ash balance basis ash balance contribution history		
	Combo Cash Balance Plan ant Statement with Optional Forms	Nancy	
	Calculation Date: July 1, 2020		
Accrued benefit payable monthly: Vested percentage:			\$35.12 100.00%
Vested accrued benefit payable mont beginning on your Normal Retiremen	hly at Date:		\$35.12*
	ble to you for your lifetime. Paym	ents will cease on your de	ath. See the schedule below
 Your vested accrued benefit is paya for benefits payable in optional form: All forms of benefit payable monthly using the Current Interest Crediting re 	s. have been calculated by projecting	the cash balance account	forward to the payment date
for benefits payable in optional forms All forms of benefit payable monthly	a. have been calculated by projecting ate and then dividing by the Cash B on in our records. If any of this infi	the cash balance account Balance Conversion APR (commation is incorrect, plear	forward to the payment date the payment date. se contact the Plan
for benefits payable in optional form: All forms of benefit payable monthly using the Current Interest Crediting r Following is your personal informatic Administrator immediately with the c Date of Birth:	a. have been calculated by projecting ate and then dividing by the Cash B on in our records. If any of this infi	the cash balance account Balance Conversion APR (commation is incorrect, plear	forward to the payment date the payment date. se contact the Plan
for benefits payable in optional form: All forms of benefit payable monthly using the Current Interest Crediting r Following is your personal informatic Administrator immediately with the c	a. have been calculated by projecting ate and then dividing by the Cash B on in our records. If any of this infi	the cash balance account alance Conversion APR @ ormation is incorrect, pleas o could affect the amount of	forward to the payment date the payment date. se contact the Plan
for benefits payable in optional form: All forms of benefit payable monthly using the Current Interest Crediting r Following is your personal informatic Administrator immediately with the o Date of Birth: Spouze's Date of Birth: Date of Hire:	have been calculated by projecting the and then dividing by the Cash B on in our records. If any of this infi orrect information. Failure to do so	the cash balance account balance Conversion APR (commation is incorrect, pleas o could affect the amount (03/16/1964 08/01/2016 04/01/2026	forward to the payment date the payment date. se contact the Plan
for benefits payable in optional form: All forms of benefit payable monthly using the Current Interest Crediting r Following is your personal informatic Administrator immediately with the c Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date:	have been calculated by projecting the and then dividing by the Cash B on in our records. If any of this infi orrect information. Failure to do so	the cash balance account lalance Conversion APR (commation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016	forward to the payment date the payment date. se contact the Plan
for benefits payable in optional form: All forms of benefit payable monthly using the Current Interest Crediting r Following is your personal informatic Administrator immediately with the o Date of Birth: Spouze's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment options:	have been calculated by projecting ate and then dividing by the Cash B on in our records. If any of this infi rorrect information. Failure to do so	the cash balance account lalance Conversion APR (commation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016 04/01/2026 At Normal	forward to the payment date the payment date. se contact the Plan
for benefits payable in optional form: All forms of benefit payable monthly using the Current Interest Crediting r Following is your personal informatis Administrator immediately with the of Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment options: Form of Payment Life Only* Life With 15 Years Certain	n have been calculated by projecting ate and then dividing by the Cash B on in our records. If any of this infi correct information. Failure to do so <u>Payable Now</u> 25.55 25.03	the cash balance account balance Conversion APR (commation is incorrect, pleas o could affect the amount of 03/16/1964 03/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.58	forward to the payment date the payment date. se contact the Plan
for benefits payable in optional form: All form: of benefit payable monthly using the Current Interest Crediting r Following is your personal informatic Administrator immediately with the of Date of Birth: Sponce's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment options: Form of Payment Life Only* Life With 15 Years Certain Joint and 100% Survivor	n have been calculated by projecting ate and then dividing by the Cash B on in our records. If any of this infi correct information. Failure to do so <u>Paxable Now</u> 25.55 25.03 23.27	the cash balance account balance Conversion APR (commation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.58 31.06	forward to the payment date the payment date. se contact the Plan
for benefits payable in optional form: All forms of benefit payable monthly using the Current Interest Crediting r Following is your personal informatis Administrator immediately with the of Date of Birth: Spouse's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment options: Form of Payment Life Only* Life With 15 Years Certain	n have been calculated by projecting ate and then dividing by the Cash B on in our records. If any of this infi correct information. Failure to do so <u>Payable Now</u> 25.55 25.03	the cash balance account balance Conversion APR (commation is incorrect, pleas o could affect the amount of 03/16/1964 03/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.58	forward to the payment date the payment date. se contact the Plan
for benefits payable in optional form: All form: of benefit payable monthly using the Current Interest Crediting r Following is your personal informatic Administrator immediately with the of Date of Birth: Sponce's Date of Birth: Date of Hire: Normal Retirement Date: Schedule of benefit payment options: Form of Payment Life Only* Life With 15 Years Certain Joint and 100% Survivor	n have been calculated by projecting ate and then dividing by the Cash B on in our records. If any of this infi correct information. Failure to do so <u>Paxable Now</u> 25.55 25.03 23.27	the cash balance account balance Conversion APR (commation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.58 31.06	forward to the payment date the payment date. se contact the Plan
for benefits payable in optional form: All forms of benefit payable monthly using the Current Interest Crediting r Following is your personal informatic Administrator immediately with the of Date of Birth: Spouze's Date of Birth: Date of Hirs: Normal Retirement Date: Schedule of benefit payment options: Form of Payment Life Only* Life Only* Life With 15 Years Certain Joint and 100% Survivor Single Lump Sum	n have been calculated by projecting ate and then dividing by the Cash B on in our records. If any of this infi correct information. Failure to do so <u>Paxable Now</u> 25.55 25.03 23.27	the cash balance account balance Conversion APR (commation is incorrect, pleas o could affect the amount of 03/16/1964 08/01/2016 04/01/2026 At Normal <u>Retirement</u> 35.12 33.58 31.06	forward to the payment date the payment date. se contact the Plan

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

	the DB Valuation Sys sday, June 30, 2020	tem	
#8 – Plan Term/Optional Forr	ms Enhancements fo	r Cash Balar	nce Plans
E. SAMPLE CASH BALANCE PLAN	REPORT (continued)		
PARTICIPANT STATEMENT WITH OPTIONAL	•	ions	
Cash Balance Opt	ions		
Use CB conv fa	actors for Imm and Ret benefit payment actors for all opt forms of payment		
Form of Payment	Payable Now	At Normal Retirement	
Life Only*	25.55	35.12	
Life With 15 Years Certain	25.03	33,58	
Joint and 100% Survivor	23.27	31.06	
Single Lump Sum	4 3 5 9	5,408	
	Based on 5.50% interest and RP19C U		
Life Only	Payable Now - 56 170.588	NRA - 62 154.000	
15C&C Joint and 100% Survivor	174.173 187.358	161.048 174.120	
Use CB Conversion Factors for Im Use CB Conversion Factors for all			
If both 'Use CB Conversion Factors f	or Imm and Ret benefit payme	ents' and 'Use Cl	B conv factors
for all opt forms of payment ' are ch			
 converting the cash balance accoun Note the blue highlighted statemen 			
Forms. This language will change de			optional
NRA – 62 Calculations			
 Life Only (Normal Form) = 3 		RBENF – Accrue	d Benefit)
• 15C&C = 5,407.90 / 161.048			
 Joint and 100% Survivor = 5 Single Lump Sum = 4 273 94 			
ingle camp cam ()2, or o	etirement uses nearest years	and is calculated	based on the
balance as of the valuation			
Payable Now Calculations			
• Life Only = 4,359.28 / 170.5			
 15C&C = 4,359.28 / 174.173 			
 Joint and 100% Survivor = 4 Single Jump Surg = 4,250 (fr 			
 Single Lump Sum = 4,359 (fr 	om Single Lump Sum Workshe	et)	

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

	op Tips for דו	uesday, June		n system		
#8 – Plan Term/0	Optional Fo	rms Enha	ancemen	ts for Ca	sh Balanc	e Plans
	peroriar r o				on Darane	
E. SAMPLE CASH BA	LANCE PLAN	N REPORT	(continue	ed)		
PRESENT VALUE REPORT						
No changes were	made to this rep	port				
		Present	s h Balance I Value Report Date: July 1, 2			
[1]	[2] Accrued	[3] Vested	[4] Vested	[5] Pres Val	[6] Pres Val	[7] Lesser
<u>Name</u> Nancy	Benefit 35.12	Percent 100.00%	Benefit 35.12	Plan Rate 4.359	<u>IRC §415</u> 198.727	[5] & [6] 4,359
Totals	35.12		35.12	4,359	198,727	4,359
			35.12		190,727	
Schedule SB Attachment						
• The Single Lump S	The Single Lump Sum wording has changed					
	Combo Cash Balance Plan					
EIN: 11111111 PN: 004 2019 Schedule SB Attachment						
Optional Forms of Benefit						
The plan's normal fo	rm of payment is a Lif	è Only annuity, pa	yable for the life	of the participant.		
unless the participan of the participant, w	For matried participants, the actuarial equivalence of this benefit will be paid in the form of a Joint and 100% Survivor annuity unless the participant elects a different form of payment and the spouse consents in writing. This benefit is payable for the life of the participant, with 100% payable to the surviving spouse for his/her lifetime. Payments cease on the death of the participant and spouse.					
The following forms	of payment are also a	vailable:				
Life Only		Payable for the l	ife of the particip	ant.		
Life With 15 Years	Certain	receiving payme	nts for 15 full yea	ant. If the particip urs, payments will o inder of the 15-yes		stop.
Joint and 100% Surv	ivor	Payable for the li cease on the deat		ant and his/her ben	eficiary. Payment	5
Single Lump Sum			For Cash Balance		ent of the plan's not lump sum value is t	

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

100 1003	for the DB Valuation System Tuesday, June 30, 2020	
#9 Dian Tanna (Ontional	Former Fick on comparison for Cook Dolonger Di	
#8 – Plan Term/Optional	Forms Enhancements for Cash Balance Pl	ans
E. SAMPLE CASH BALANCE PL	AN REPORT (continued)	
NOTICE OF PLAN BENEFITS		
 No changes were made to the first 	- nage	
	page	
	NOTICE OF PLAN BENEFITS for: Nancy	
You have previously been informed th 1, 2020. A notice concerning this term	at the COMBO CASH BALANCE PLAN is being terminated as of March aination will be filed with the Pension Benefit Guaranty Corporation.	
Following is general information about	at the plan and the termination:	
Name of plan sponsor: EIN of plan sponsor: Name of plan:	111111111 Combo Cash Balance Plan	
Plan number: Name, address, phone of plan contact:	004	
Proposed termination date: March 1, Extended proposed termination date: Proposed distribution date: July 1, 20	N/A 20	
	ras used to calculate your benefit. If any of this information is incorrect or rovide the correct information to the plan contact listed above. Failure to do so you receive.	
Date of Birth: Spouse's Date of Birth:	03/16/1964 Assumed same age	
Date of Hire:	08/01/2016 10/01/2017	
Date of Plan Entry: Date of Termination:	N/A	
Date of Credited Service: Average Annual Compensation:	10/01/2017 37,040	
	04/01/2026	
Normal Retirement Date: Early Retirement Date:	N/A	
Normal Form of Payment:	Life Only	
Normal Retirement Benefit:	\$35.12	
above. The Life Annuity form of pay your beneficiary after your death. If y the form of a qualified joint and survi A joint and survivor annuity provides payable to your surviving spouse on y joint and 50% survivor annuity, you w	yable on your Normal Retirement Date in the Normal Form of Payment indicated ment provides you with a monthly benefit for your lifetime, with no payments to our are married at the time your benefit commences, your benefit will be paid in you with a monthly benefit for your lifetime, with a percentage of your benefit you with a monthly benefit for your lifetime, with a percentage of your benefit our death. Payments cease on the death of both you and your spouse. If you are a rould receive \$32.96 per month for your lifetime. If your spouse survives you,	
spouse dies before you, payments wou	for his/her lifetime. Payments would cease on the death of your spouse. If your ild cease on your death. r benefit in other forms, including a single sum option. If the amount of your	
single sum benefit at the time of distri form. If the amount of your single sur	bution is \$5,000.00 or less, your benefit will automatically be paid to you in this m is greater than \$5,000.00 however, you cannot receive your benefit in this form d, your spouse consent to the distribution.	

Tuesday, August 10, 2021

#4 – Participant Termination/Optional Forms

			rms Enhancements for Cash Balance Plans
NOTICE	OF PLAN BENEFITS -	Page 2	
• The	Single Lump Sum wo	ording has cha	anged on the second page
		NOT	ICE OF PLAN BENEFITS for: Nancy
		of payment were c	timated amount of your single sum distribution is \$4,359. This benefit and alculated according to the provisions of the plan document using the
	Interest: Mortality:	Current: Post-retirement: Post-retirement:	
	Other forms of payment	offered by the plan	n include the following:
	Life Only		Payable for the life of the participant.
	Life With 15 Yes	irs Certain	Payable for the life of the participant. If the participant dies before receiving payments for 15 full years, payments will continue to his/her surviving beneficiary for the remainder of the 15-year period and then stop.
	Joint and 100% S	urvivor	Payable for the life of the participant and his/her beneficiary. Payments cease on the death of both.
	Single Lump Sur	n	This is a one-time payment of the lump sum equivalent of the plan's normal form of benefit. For Cash Balance plans, the single lump sum value is the cash balance account value.
			ions \ 417E – 'Use Greater of Act. Equiv or 417(e) for Reports' language on this report.

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#4 – Participant Termination/Optional Forms

NGLE LUMP SUM WORKSHEFT	Calculations - Press	ent Values set to 'Nearest M	lonth'
		h Balance Plan	
	Single Lump Sum	Worksheet for: Nancy	
	Valuation Date: Decer Date: Ji	nber 31, 2019 Calculation nly 1, 2020	
Date of Birth: Date of Hire: Date of Entry: Vesting Start Date: Years of Vesting: Accrual Start Date: Years Accrued: Total Accrual Years: Normal Form:	03/16/1964 08/01/2016 10/01/2017 01/01/2017 3.00 10/01/2017 3.00 &.25 Life Only	Normal Retirement Date: Date NRA Attained: Early Retirement Date: Vesting Service: Vested Percent: Accural Service: Discount Period: Age at Calculation Date: 415 Service at Calculation Date: 415 Participation at Calculation	
Accrued Benefit Payable at No	omal Retirement Date:		35.12
Vested Percent:			100.00%
Vested Accrued Benefit Payab	le at Normal Retirement Date	2:	35.12
		Cash Balance Account and Assumptions	Alternate Assumptions
Interest crediting rate:		4.00%	N/A
Cash balance account as of 12	31/2019:	4,273.94	N/A
Interest to 07/01/2020:	01/2020	84.64	N/A N/A
Cash balance account as of 07/		4,358.58 4,358.58	N/A N/A
IRC §415 maximum lump sum		198,727	N/A
Single lump sum value as of 0		4,358.58	N/A
When 'Recalculate Prese	nt Values' is set to 'N ws: 4,273.94 x 1.04	learest Month', the interest \ ^(6/12) – 4,273.94 = 84.64, w	credit to 07/01/2020

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#4 – Participant Termination/Optional Forms

. SAMPLE CASH B	ALANCE PLAN REP	ORT (continued)	
INGLE LUMP SUM WOR	KSHEET Calculations - I	Present Values set to 'Neares	t Year'
		h Balance Plan ring 2020 Project #13	
	Single Lump Sum	Worksheet for: Nancy	
		December 31, 2019 Date: July 1, 2020	
Date of Birth: Date of Hine: Date of Entry: Vesting Start Date: Years of Vesting: Accrual Start Date: Years Accrued: Total Accrual Years: Normal Form:	03/16/1964 08/01/2015 10/01/2017 01/01/2017 3.00 10/01/2017 3.00 8.25 Life Only	Normal Retirement Date: Date NRA Attained: Early Retirement Date: Vested Percent: Accrual Service: Discount Period: Age at Calculation Date: 415 Participation at Calculation Date:	04/01/2026 03/16/2026 N/A Total service 100.00% Participation service 6 56 4.00 ate: 4.00
Accrued Benefit Payable	at Normal Retirement Date:		35.12
Vested Percent:			100.00%
Vested Accrued Benefit I	Payable at Normal Retirement Date	e:	35.12
		Cash Balance Account and <u>Assumptions</u>	Alternate Assumptions
Interest crediting rate:		4.00%	N/A
Cash balance account as	of 12/31/2019:	4,273.94	N/A
Interest to 07/01/2020:		170.96	N/A
Cash balance account as		4,444.90	N/A
Vested cash balance acco		4,444.90	N/A
IRC §415 maximum lum		198,727	N/A
	e Present Values' is set follows: 4,273.94 x 1.04	4,444 90 to 'Nearest Year', the interest ∧ ¹ − 4,273.94 = 170.96, where	

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#4 – Participant Termination/Optional Forms

		NCE PLAN REPO	nhancements for Ca	
			resent Values set to 'Do Not	Recalculate'
		Single Lump Sum	h Balance Plan Worksheet for: Nancy	
			aber 31, 2019 Calculation aly 1, 2020	
Dat Dat Ves Yea Acc Yea Tot:	e of Birth: e of Hire: e of Entry: ting Start Date: rs of Vesting: rual Start Date: rs Accrued: al Accrual Years: mal Form:	03/16/1964 08/01/2016 10/01/2017 01/01/2017 3.00 10/01/2017 3.00 8.25 Life Only	Normal Retirement Date: Date NRA Attained: Early Retirement Date: Vering Service: Veted Percent: Accrual Service: Discourt Period: Age at Calculation Date: 415 Participation at Calculation Date:	04/01/2026 03/16/2026 N/A Total service 100.00% Participation service 6 56 3.00 tte: 3.00
Acc	rued Benefit Payable at No	ormal Retirement Date:		35.12
	ted Percent:			100.00%
Ves	ted Accrued Benefit Payab	le at Normal Retirement Date		35.12
			Cash Balance Account and <u>Assumptions</u>	Alternate Assumptions
	h balance account as of 12		4,273.94	N/A
	ted cash balance account a		4,273.94	N/A N/A
	\$415 maximum lump sum gle lump sum value as of l		157,533 (4,273.94)	N/A
ad ac > Yo op	When 'Recalculate Present Values' is set to 'Do Not Recalculate', no additional interest will be added to calculate the 'Payable Now' single lump sum value. The 'Payable Now' cash balance account value will be the same as the value found on the Employee > Costs > CASHBAL screen. You may also use the 'Do Not Recalculate' option in conjunction with the Earnings Override option found on the Employee > Costs > CASHBAL screen to adjust the cash balance account value.			



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#1 – American Rescue Plan Act of 2021

#2 – One Participant DC Cash Balance Plan Proposal

#3 – ASC-715 Basics in ASC

#4 – Participant Termination/Optional Forms

#5 – DB Pattern Plans Overview

#6 – Extended History

#7 – Average Compensation Overview

#8 – Traditional Benefit Formula Coding

#9 – Participant Reconciliation with Grids and Formulas

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#5 – DB Pattern Plans Overview

Topic Roadmap

- A. ASC Pattern Plans
- B. Creating New Pattern Plans
- C. Setting up Pattern Plans for Commonly Used Designs
- D. Updating Pattern Plans
- E. References

Tuesday, August 10, 2021

#5 – DB Pattern Plans Overview

A. ASC Pattern Plans

- Pattern plans are templates on which new plans are based. They contain Plan Specifications with default settings, but no employee data and are stored in the DEF Pattern Plans library
- The ASC System contains pre-created pattern plans
 - o DB Pattern Plan
 - o DC Pattern Plan
- Custom Pattern Plans can be created

B. Creating New Pattern Plans

- Creating custom pattern plans with your commonly used designs saves you time when creating new plans in the future.
- Coordinate with a designated individual on your team to create pattern plans and keep them updated each year.
- To create a pattern plan:
 - 1. File > New Plan
 - 2. Highlight the DEF Library and DB Pattern Plan
 - 3. Click OK and Yes to confirm that you want a new Pattern Plan
 - 4. A Pattern Plan can be copied into a Pattern Plan

New F	Plan						×
		Library					
No.	ID	Description		No.	Тур	Pattern Plan	
1	D12	Active Plans		5	DC	DC PATTERN PLAN	
2	D13	Archive Plans		7	DB	Traditional DB-BOY 1/1/21	
3	D14	Scratch Plans		8	DC	TARGET PATTERN PLAN	
4	DEF	Pattern Plans		9	DB	Traditional DB-EOY 12/31/20	
5	D15	ASC Support Cases		10	DB	CB - EOY 2020	
10	D20	ASC Cases for Manuals					
11	D21	ASC FAQ Cases		Name			
				Memo			
				Client	Numbe	er	
		ОК	Cancel				

ASC Main Menu: File > New Plan

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#5 – DB Pattern Plans Overview

C. Setting up Pattern Plans for Commonly Used Designs

- Set up Pattern Plans for
 - o BOY and EOY Valuation Dates
 - o Traditional Designs and Cash Balance Plans
 - Template for our new DC/CB Proposal program for one participant plans
- Common Recommended Settings
 - o Plan Specifications
 - General \ Identification \ ID
 - If setting up a Pattern Plan for Cash Balance Plans, set Cash Balance Plan to **Yes**

PLANSPEC - D22:0001		– 🗆 X
File Edit Search View Options	Window Help	
View Specifications General ELG ELG ELG ELG ECCUPAL Compensation Benefix ECCUPAL ECUPAL ECCUPAL ECCUPAL ECUPAL	Identification Identification Identification Identification CASH BALANCE PLAN Memo Cash Balance Plan Client No. Plan Dates Plan Year Begin 01/01/2020 End 12/31/2020 Other Dates Exclude Service Exclude Accrual Svc Non-PinYr Comp. Date Insurance Issue Date 12/31/2020 OK	Cash Balance Plan Yes V Floor/Offset Plan No V Mult EE Locations No V Effective 01/01/2013 End History PYE Hist 1 PYE Hist 2 PYE Hist 3 Notes

Plan Specifications: General \ Identification \ ID screen

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#5 – DB Pattern Plans Overview

- Common Recommended Settings (Continued)
 - o Plan Specifications (Continued)
 - General \ Identification \ ANCILELG \ Early Retirement
 - Set provisions to match Normal Retirement Provisions of the RETIRE screen
 - Set Vest at Early Retirement to **Yes**

PLANSPEC - D21:0016		– 🗆 X
File Edit Search View Options	Window Help	
View Specifications General D ELIG RETIRE ANCIELIG RETIRE ACCRUAL Compensation Compensatio	Eligibility for Ancillary Benefits Early Retirement - Minimum Age Maximum Age Minimum Service Starting Date Minimum Participation Starting Date Vest at Early Retirement Yes v	 Disability 100.0 Years 0 - None V Years 0 - None V wform Normal Function V

Plan Specifications: General \ Identification \ ANCILELG

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#5 – DB Pattern Plans Overview

- Common Recommended Settings (Continued)
 - o Plan Specifications (Continued)
 - General \ Identification \ ACCRUAL
 - Set Accrual before Apply Maximum to Yes. This field should always be set to Yes when Type of Accrual is set to 5 – Unit Per Formula
 - Starting Date field in the ACCRUAL and Benefit Formula screens
 - **2 Plan Year** accrual service begins on the participant's Accrual Start date
 - **4 BOY Entry** accrual service begins in the plan year containing the participant's Entry date
 - Set Starting Date, Basis of Year, and Days in First Year/Retirement Year to match the coding in the Benefit Formula screen

PLANSPEC - DEF:0009		– 🗆 X
File Edit Search View Options	Window Help	
View Specifications General Control Control	Acrual Method Type of Accrual Starting Date 4-BOY Entry Sastis of Year 2-1000 Hours ▼ Days in First Year 163 Retirement Year 186 Hours Excl. Years < Effective Date No ▼ Exclude Years before Age No ▼ Age 18 Percentage Accrual Percent per Year OK _ Ca	Coptions Accrual before Apply Maximum Yes Accrual before Apply Minimum No Accrued Benefit Minimum Reserves No Accrued Benefits at Year End No Front End Accrual Years for Full Accrual Years for Full Accrual So

Plan Specifications: General \ Identification \ ACCRUAL

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#5 – DB Pattern Plans Overview

- Common Recommended Settings (Continued)
 - o Plan Specifications (Continued)
 - General \ Compensation \ COMPAVG
 - Set Maximum Applies to **4 Year 2001 Law** for all post-EGTRRA plan years.

PLANSPEC - DEF:0009		- 🗆 X
PLANSPEC - DEF:0009 File Edit Search View Specifications Conversal Second ELIG ELIG RTIRE AnculLLG VESTING Second Compensation Standard COMPAVIS ElicalAuxis ElicalAuxis Enerfits MinBen MAXBEN MAXBEN Second Second Second <td< td=""><td>Window Help Compensation Averaging Plan Average Averaging Period 3 Yrs Exclude Comp during Last Yrs Average during Last 99 Yrs First Year 1 - No Change ▼ Retirement Year 3 - Short Year ▼ Termination Year 3 - Short Year ▼ Use Consecutive Month Avg No ▼ Use Consecutive Years Yes ▼</td><td>Compensation Limits Maximum Compensation \$ 290,000 Q Maximum Applies to 4 - Year 2001 Law v Compensation Rate 1 - Annual v Reduce Non-Keys to 100.00 % of Full Comp Benefit Grandfather Prior Projected Benefits No v Benefit Add-ons 1 - Increase Benefit v Assumed Continuation @ Same Hours/Yr No v Compensation is Input Yes v</td></td<>	Window Help Compensation Averaging Plan Average Averaging Period 3 Yrs Exclude Comp during Last Yrs Average during Last 99 Yrs First Year 1 - No Change ▼ Retirement Year 3 - Short Year ▼ Termination Year 3 - Short Year ▼ Use Consecutive Month Avg No ▼ Use Consecutive Years Yes ▼	Compensation Limits Maximum Compensation \$ 290,000 Q Maximum Applies to 4 - Year 2001 Law v Compensation Rate 1 - Annual v Reduce Non-Keys to 100.00 % of Full Comp Benefit Grandfather Prior Projected Benefits No v Benefit Add-ons 1 - Increase Benefit v Assumed Continuation @ Same Hours/Yr No v Compensation is Input Yes v
Values Locations	ОК	Cancel

Plan Specifications: General \ Compensation \ COMPAVG

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#5 – DB Pattern Plans Overview

- Common Recommended Settings (Continued)
 - o Plan Specifications (Continued)
 - General \ Compensation \ LEGALAVG
 - Set Limit by 401(a)(17) to Yes

Specifications Top Heavy Minimum Average General Averaging Period ID Averaging Period ELIG Exclude Comp during Last RETIRE Exclude Comp during Last VESTING Average during Last First Year 1 - No Change First Year 1 - No Change	PLANSPEC - DEF:0009	C - DEF:0009	– 🗆 X
Specifications Top Heavy Minimum Average General D BLIG ELIG ELIG Exclude Comp during Last Yrs Averaging Period ANCILELG Average during Last VESTING First Year Top Comparation First Year Top Heavy Minimum Average Maximum Benefit Average Maximum Benefit Average 3 Yrs Averaging Period Second First Year Yrs Second First Year 1 - No Change	File Edit Search View Options	Search View Options Window Help	
Image: MaxBen Image: MaxBen Image:	Specifications General ID ELIG RETIRE ANCILELG VESTING ANCILELG VESTING ANCILEG VESTING ANCILEG WESTING ANCILEG WESTING ANCILEG WINBEN ID ELIG RETIRE ANCILEG VESTING ANCILEG WINBEN ID ELIG ID ELIG ID ELIG ID ELIG ID ELIG ID ELIG ID ELIG ID ELIG ID ID ELIG ID ELIG ID ID ELIG ID ID ELIG IN ANCILEG ID ID ID ELIG ID ID ID ELIG IN ANCILEG IN ID ID ID ID ID ID ID ID ID ID	stions Seneral Compensation	Averaging Period 3 Yrs Exclude Comp during Last Yrs Average during Last 99 Yrs First Year 1 - No Change V Retirement Year 3 - Short Year V Termination Year 3 - Short Year V Consecutive Month Avg No V Limit by 401(a)(17) Compensation Yes V

Plan Specifications: General \ Compensation \ COMPAVG

- General \ Compensation \ MAXBEN
- Funding \ FUNDASMP
 - Needs to be coded with interest rates and valid mortality tables to avoid errors that will terminate the Calculations > Valuation routine.
- Funding \ FUNDMETH
 - Beginning of Year Valuation
 - Use BOY accrued benefit for funding target
- Assumptions \ CASHBAL
 - Disregard Prior Accrued Benefit
- Values \ VALPPA
 - Prior Funded percent for 430(f)(3) = 80%
 - Last Year AFTAP = 100%
 - ARP Relief 1st Val Date

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#5 – DB Pattern Plans Overview

- Common Recommended Settings (Continued)
 - Reports > Valuation > PPA DB.... Preselect your typical Report Sections and Options, such as:
 - Include Late Quarterly Interest
 - Qualification Standards
 - Compliance Testing menus
 - Mortality Table
 - Interest Rates
 - Rate Calculation Methods
 - Extended History Records
 - Utilities > Change Structure > Extended History Records

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#5 – DB Pattern Plans Overview

D. Updating Pattern Plans

- Pattern plans are not automatically updated with system updates to avoid resetting any custom specification coding you choose to use
- Update to New Period: Delete history records and note prior year values that were updated during this process
- Manual Update: The following fields should be reviewed each year and updated if necessary (additional fields should be reviewed depending on the specifics of your pattern plan):
 - o General \ Identification \ ID \ Plan Year Begin, End, Insurance Issue Date, Effective Date
 - o General \ Compensation \ COMPAVG \ Maximum Compensation
 - o General \ Compensation \ MAXBEN \ Maximum Benefit 62 to 65
 - Funding \ PPAFASMP \ Interest Rates and Mortality
 - Assumptions \ ACTEQUIV \ Mortality
 - o Assumptions \ MAXBNADJ \ Post-Retirement Mortality
 - Assumptions \ 417E \ Interest Rates and Mortality
 - o Assumptions \ PBGCPREM \ Interest Rates, Mortality, Premium Information
 - o Assumptions \ CASHBAL \ Interest Rates and Mortality

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#5 – DB Pattern Plans Overview

E. References

FAQs

ASC	Client Support Center		Search ASC FAQs	ρ	
 NEW INCIDENT	VIEW INCIDENTS	SEARCH	REPORTS	FILE MANAGER	BILLING
FAQs /	SC				
+ Actian S	QL				
+ Daily Val	- DV Direct				
+ DC - Cor	mpliance				
+ DC - Red	cordkeeping				
- Defined	Benefit				
FAQ 763:	Pattern Plan	<u>Update</u>			

- Systems Reference Manual
 - o Chapter 1: Plan Management
- DB Reference Manual
 - o Chapter 3: Cash Balance Plans
 - Creating a Cash Balance Pattern Plan
- Online Help
 - <F1> on keyboard to access online help for each employee or plan specifications field



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#1 – American Rescue Plan Act of 2021

#2 – One Participant DC Cash Balance Plan Proposal

#3 – ASC-715 Basics in ASC

#4 – Participant Termination/Optional Forms

#5 – DB Pattern Plans Overview

#6 – Extended History

#7 – Average Compensation Overview

#8 – Traditional Benefit Formula Coding

#9 – Participant Reconciliation with Grids and Formulas

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#6 – Extended History

Topic Roadmap

- A. Overview
- B. Employee Extended History
- C. Plan Specifications History
- D. History Utilities
- E. Exporting Employee History using ASCript and Grids
- F. References

Tuesday, August 10, 2021

#6 – Extended History

A. Overview

- Plan and Employee history records store useful information that can be exported from the plan or used to analyze historical data
- Plan and Employee history fields are automatically stored each year when Update to New Period calculations are run and a new history record for the prior year is created
- A history record can be manually added, and history fields can be manually input as well
- Use history records to:
 - Export historical employee data using ASCript or Grids
 - Exports can be used to populate custom reports
 - o Monitor changes in dates (i.e., retirement, hire, term)
 - o Study trends in employee data

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#6 – Extended History

B. Employee Extended History

Basic Data \ HISTORY

1 EMPLOYEE - D22:0001							- 🗆	×
File Edit Search View Options	Window Help							
View Specifications AME DATE DATE DATE DATE COMP HISTORY Costs C	➡ History - Employee 1 History Date Key EE 2019/12/31 Y 2018/12/31 Y 2016/12/31 Y 2016/12/31 Y 2015/12/31 Y 2016/12/31 Y 2013/12/31 Y 2013/12/31 Y 2013/12/31 Y 2013/12/31 Y	Hours Status A A A A A B	Projected Benefit 11205.28 1833.33 17916.66 17500.00 17500.00 17500.33 17083.33	Funding Benefit 11205.28 1833.33 17916.66 17500.00 17500.00 16533.52 16547.33 16547.33 46ddm Addify Addd	Compensation 294786.00 27800.00 27000.00 265000.00 265000.00 265000.00 255469.31 	Extra Comp.	Incr. Face Amount	
Basic Data NAME NAME DATE COMP Benefits Costs VALUES VALUES VALUES VALUES VALUES VALUES Costs Exployees Costs Employees Costs Find Existing Search Grids	Date Key EE 2019/12/31 Y 2018/12/31 Y 2018/12/31 Y 2016/12/31 Y 2015/12/31 Y 2014/12/31 Y 2014/12/31 Y 2014/12/31 Y 2013/12/31 Y 2013/12/31 Y	A A A A A	11205.28 1833.33 17916.66 17500.00 17500.00 17500.00 17500.00	11205.28 1833.33 17916.66 17500.00 17500.00 16833.52 16547.33	294786.00 278100.00 27000.00 265000.00 265000.00 265000.00 255469.31	Extra Comp.	Incr. Face Amount	

Employee: Basic Data \ HISTORY

- The extended history records contain historical employee fields that are stored during the Update to New Period routine
- The Employee history record for the previous plan year is created and populated when a plan is updated to a new period. A history record and history fields can also be manually entered by the user or populated with ASCript Import. The most recent employee history record is the last day of the prior compensation year, for example:

For a 2021 Calendar Year plan, the most recent employee history record is:

- o BOY Valuation Date Plan 12/31/2019
- EOY Valuation Date Plan 12/31/2020
- View Extended history by selecting a history record and click "Modify." In the History record, click one of the "Ext" buttons on the top of the screen.
- All fields in Extended History can be overridden

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#6 – Extended History

B. Employee Extended History (Continued)

• Extended History A

lame and Identification		Dates		
Officer N - No -	Principal 3 - Group 3 -	Date of Birth	02/23/1983	
Ownership Pct	Location	Date of Hire	10/07/2008	
Family Code	Spouse Code	Termination Date		
Family Prior Year	Lineal Desc. Code	Rehire Date		
HCE N - No	•	Date NRA Attained	02/23/2045	
HCE Prior N - No	•	Normal Retirement	03/01/2045	
ash Balance		Miscellaneous		
Prior Balance		Excluded Comp		
Prior Contrib		Elig for Unitized Min	Y - Yes 🔻	
Earnings				
Expected Contrib				
Basis in Account				
Distribution				
Dist. Date				
Dist. Earnings				
Dist. AccBen				
Dist. Fund. AccBen	ОК	Cancel Delete He	alp	
Cash Bal APR			ab	

Employee: Basic Data \ HISTORY \ Extended History A

- Contains fields from the NAME, DATE, CASHBAL screens as well as excluded compensation and the Cash Balance APR
 - Cash Bal APR relevant for postponed retirees and BOY tested plans with variable interest rates

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#6 – Extended History

B. Employee Extended History (Continued)

Extended History B

📑 Modify Extended History B		×
415 Limit	Accrued Benefits	Calculated Service
Lump Sum at RA 319021.74 Accrued Benefit 12249.99 Val Date Service 9.00 Val Date Participation 7.00 Imm Annty Bnft % Max 2129.31 Imm Annty Bnft % Max 2067.93 Immediate Lump Sum 425952.00 BOY 415 Accr Benefit 1798.54 EOY 415 Accr Benefit 2129.30	BOY Accrued Benefit 78.68 EOY Accrued Benefit 94.63 BOY CB Accr Benefit EOY CB Accr Benefit EOY CB Accr Benefit Actuarial Equival. 3673.00 For Top Heavy 3673.00 For 417(e) 3614.00	Curr Yrs Accrued 8.00 Total Yrs Accrued 36.00 Years of Vesting 7.00 Miscellaneous Offset to Accr Bnft Add-on to Accr Bnft
	K Cancel <u>D</u> elete <u>H</u> elp	

Employee: Basic Data \ HISTORY \ Extended History B

Contains fields from the 415 immediate lump sum limit calculations, BOY and EOY accrued benefits, Present values for Plan Assumptions, Top-Heavy and 417(e) purposes, Current Service, Total Service, Vesting Service, and offset and add-on fields

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#6 – Extended History

B. Employee Extended History (Continued)

• Extended History C

📑 Modify Extended History C	×
Accrual Average Compensation	
Plan Benefit 2365.90	
Top Heavy Minimum 2320.66	
415 Maximum 2365.90	
Current Liability Average Comp	
Plan Benefit 2365.90	
Top Heavy Minimum 2320.66	
415 Maximum 2365.90	
OK Cancel <u>D</u> elete <u>H</u> elp	

Employee: Basic Data \ HISTORY \ Extended History C

- Contains average compensation at the valuation date and at the end of the year for Plan Benefits, Top-Heavy, and 415 maximum purposes
- Extended History D

×

Employee: Basic Data \ HISTORY \ Extended History D

 Contains the distribution date and gross amount paid fields input in the Benefits \ SOLEPROP screen

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#6 – Extended History

C. Plan Specifications History

• Located in Values \ HISTORY

TAIC
TNC - Max
384960.00 394713.00
430763.00
450705.00
>

Plan Specifications: Values \ HISTORY

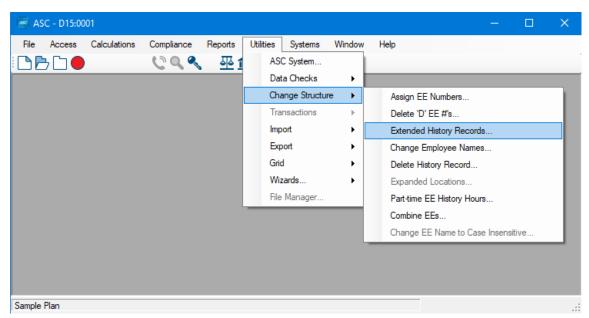
o Assets, Balances, EIR and PPA Minimum and Maximum Funding values

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#6 – Extended History

D. History Utilities

- Creating Extended History Records
 - o Utilities > Change Structure > Extended History Records...



ASC Main Menu: Utilities > Change Structure > Extended History Records...

- Automatically enabled when the Calculations > Update to New Period program is run
- Manually enabled by selecting Utilities > Change Structure > Extended History Records from the ASC Main Menu
 - This selection also enables History records in Plan Specifications. Plan Specifications \ Values \ HISTORY records are created during the Update to New Period routine.

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#6 – Extended History

D. History Utilities (Continued)

- Part-Time EE History Hours...
 - Utilities > Change Structure > Part-Time EE History Hours...

Part-time EE History Hours	×
For employees with Status Code = J:	
Create history records with 1 Hour	
Stars 1 hour for quisting history with 0	
Store 1 hour for existing history with 0	nrs
OK Cancel Help	

ASC Main Menu: Utilities > Change Structure > Part-time EE History Hours

- This command creates history records and stores a value of 1 in the Hours field for employees coded as Participation Status code J in the DATE screen
- o Includes option to replace existing 0 (blank) hour history records with 1 hour

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#6 – Extended History

D. History Utilities (Continued)

- Combine EEs...
 - Utilities > Change Structure > Combine EEs..

Combine EEs	×					
Copy FROM Employee Key: 31 Q Copy TO Employee Key: 1 Q						
Combine Basic						
Combine History						
Combine Values						
Combine Transactions						
OK Cancel Help						

ASC Main Menu: Utilities > Change Structure > Combine EE...

- This command will combine or move basic data from one employee record to the other employee record
 - Dates of Birth, Hire, Termination and Rehire, and History records are moved if they do not already exist in the destination record
 - If the combined hours are less than 3,001, then both Compensation and Hours are combined in the destination record
 - If the combined hours exceed 3,000, then only Compensation is combined in the destination record
- o The "FROM" employee record data is deleted when the program is complete

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#6 – Extended History

E. Exporting Employee Data using ASCript and Grids

- ASCript Export
 - Select "New, exporting Employee detail data such as history or transactions" to export records for all historical entries or for selected dates for every participant

ABD Variable Export Wizard	×
Start	
Welcome to the Variable Export Wizard. This will guide you through the steps needed to create a Variable Export. This export consists of data that you select to be exported to an new, external, character-based file. This Wizard creates a standard variable-length, tab-delimitted file. To do more advanced functions, such as creating a fixed-length file or manipulating data, choose the 'Edit Export Options' on the Create Export File screen.	
What type of Variable Export would you like to create?	
C New, exporting Employee data.	
New, exporting Employee detail data, such as history or transactions.	
C Open an existing Variable Export that exports Employee or Detail data.	
Help Cancel <previous next=""> Finish</previous>	

ASCript: Wizards \ Export

Tuesday, August 10, 2021

#6 – Extended History

E. Exporting Employee Data using ASCript and Grids (Continued)

- ASCript Export (Continued)
 - o Click Edit to Select items to export

ABE Variable Export Wizard	×
Select items to export	
The system is now ready for you to select the items to be exported to the file. After you click the Edit button below, you will see the 'Find Item' dialog. Select the items you want and click the Done button to continue. If you want to exit without selecting items, click the Cancel button on the Find Item dialog.	
Click the Edit button to start selecting items. If you want to continue with the current items, click the Next button or the Finish button.	it
Edit	
Help Cancel <previous next=""> Finish</previous>	

ASCript: \ Wizards \ Export \ Select items to export

orm Names	Item Names			Selected Items	Prompt for Totals
HISTORY	HSDATE	^	Select Item	NAME	
	HSCOMP HSXTCOMP		Find Item	T:HSDATE T:HSKEYIND	
	HSPRBENF	-	Edit Item	T:HSACBENF T:HSCOMP	
	HSACBENF HSKEYIND		Item Desc		
	HSFACAMT HSPRMAMT		Formulas	i l	
	HSMINPRM		Master		
	HSPOLNUM		Select All	i l	
	HSHOURS		Select Detail		
	HSPARTST	~	Done	Item: History Com	p.

ASCript: \ Wizards \ Export \ Select items to export - Find Item

Tuesday, August 10, 2021

#6 – Extended History

E. Exporting Employee Data using ASCript and Grids (Continued)

- ASCript Export (Continued)
 - o ASCript Export can be saved as an .xls file

	А	В	С	D	E
1	NAME	T:HSDATE	T:HSKEYINI	T:HSACBENF	T:HSCOMP
2	Employee 1	12/31/2013	Y	1411.64	255469.31
3	Employee 1	12/31/2014	Υ	3098.07	265000
4	Employee 1	12/31/2015	Υ	3407.89	265000
5	Employee 1	12/31/2016	Y	4981.75	265000
6	Employee 1	12/31/2017	Y	5869.97	270000
7	Employee 1	12/31/2018	Υ	7041.42	278100
8	Employee 1	12/31/2019	Y	6604.89	294786
38	Employee 2	12/31/2013	N	0	1400.29
39	Employee 2	12/31/2014	N	0	29300
40	Employee 2	12/31/2015	N	0	0
41	Employee 2	12/31/2016	N	0	0
42	Employee 2	12/31/2017	N	0	37564
43	Employee 2	12/31/2018	N	20.38	38690.92
44	Employee 2	12/31/2019	N	41.49	41012
45	Employee 3	12/31/2013	N	4.55	29790.68
46	Employee 3	12/31/2014	N	9.42	33100
47	Employee 3	12/31/2015	N	0	35700
48	Employee 3	12/31/2016	N	0	37500

Sample ASCript Export .xls

• Variable export file can be saved for future exports

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#6 – Extended History

E. Exporting Employee Data using ASCript and Grids (Continued)

- Employee Grids
 - Employee Grids can be used to view data in the ASC system. The data can then be copied to a clipboard and pasted into a spreadsheet
 - Select the HISTORY Form Name and Item name and enter the History Date(s) you would like to add to the Grid

Form Names		Item Names		Selected Items	Prompt for Totals
DATE	^	HSCOMP ^	Select Item	NAME	
COMP HISTORY		HSXTCOMP	Find Item	1	
ADDRESS PROJBENF		HSFDBENF	Edit Item	1	
ACCRBENF		HSKEYIND	Item Desc	il .	
INSUR		HSPRMAMT	Formulas	il	
VALUES VALPPA		Set Item Keys			
LIABILTY COSTS EXPVAL CASHBAL CALCS	~	F Item keys	istory Date 12/3	HSACBENF	npt at RunTime

Employee: View > Grid > New

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#6 – Extended History

E. Exporting Employee Data using ASCript and Grids (Continued)

- Employee Grids (Continued)
 - o Click 'OK' to view Data in Grid

Index Employee 11 13.85 6.80 48,017.00 45,299.40 Pind Existing Employee 12 87.66 69.25 43,563.00 41,097.00 Employee 13 41,077.00 39,346.00 67,817.88 Employee 2 41.49 20.38 41,012.00 38,660.92 Employee 3 38.45 30.56 42,799.00 40,376.00 Employee 4 71.80 56.00 28,649.00 26,883.00 Employee 5 111.99 93.91 41,925.00 39,552.00	
Find Existing Employee 1 6,604.89 7,04142 294,786.00 278,100.00 earch Employee 10 21.31 16.69 29,260.00 27,604.00 ids Employee 11 13.85 6.80 48,017.00 45,299.40 P Find Existing Employee 12 87.66 69.25 43,563.00 41,097.00 Employee 13 41,707.00 39,346.00 678.17.88 678.17.88 Employee 2 41.49 20.38 41,012.00 38,690.92 66,883.00 Employee 3 38.45 30.56 42,799.00 40,376.00 26,883.00 Employee 4 71.80 56.00 28,496.00 26,883.00 66,853.00	
Index Employee 11 13.85 6.80 48,017.00 45,299.40 Pind Existing Employee 12 87.66 69.25 43,563.00 41,097.00 Employee 13 41,077.00 39,346.00 Employee 14 67,817.88 Employee 2 41,49 20.38 41,012.00 38,690.92 Employee 3 38.45 30.56 42,799.00 40,376.00 Employee 4 71.80 56.00 28,696.00 26,883.00 Employee 5 111.99 93.91 41,925.00 39,552.00	
Find Existing Employee 12 87.66 69.25 43,563.00 41,097.00 Employee 13 41,707.00 39,346.00 Employee 14 67,817.88 Employee 2 41.49 20.38 41,012.00 38,690.92 Employee 3 38.45 30.56 42,799.00 40,376.00 Employee 4 71.80 56.00 28,496.00 26,883.00 Employee 5 111.99 93.91 41,925.00 39,552.00	
Employee 13 41,707.00 39,346.00 Employee 14 67,817.88 Employee 2 41.49 20.38 41,012.00 38,690.92 Employee 3 38.45 30.56 42,799.00 40,376.00 Employee 4 71.80 56.00 28,496.00 26,883.00 Employee 5 111.99 93.91 41,925.00 39,552.00	
Employee 14 67,817.88 Employee 2 41.49 20.38 41,012.00 38,690.92 Employee 3 38.45 30.56 42,799.00 40,376.00 Employee 4 71.80 56.00 28,496.00 26,883.00 Employee 5 111.99 93.91 41,925.00 39,552.00	
Employee 2 41.49 20.38 41,012.00 38,690.92 Employee 3 38.45 30.56 42,799.00 40,376.00 Employee 4 71.80 56.00 28,496.00 26,883.00 Employee 5 111.99 93.91 41,925.00 39,552.00	
Employee 3 38.45 30.56 42,799.00 40,376.00 Employee 4 71.80 56.00 28,496.00 26,883.00 Employee 5 111.99 93.91 41,925.00 39,552.00	
Employee 4 71.80 56.00 28,496.00 26,883.00 Employee 5 111.99 93.91 41,925.00 39,552.00	
Employee 5 111.99 93.91 41,925.00 39,552.00	
Employee 6 83.45 37.06 41,379.00 39,037.00	
Employee 7 91.01 76.16 44,764.00 42,230.00	
Employee 8 24.22 35.18 37,776.00 35,638.00	
Employee 9 106.32 88.73 36,357.00 34,299.00	

Employee: View > Grid > Sample Grid output

o Copy to Clipboard to paste into a spreadsheet

Edit Search	View Option		1001	v Help						
	Find Existi Add New	ng		titled]					-	
Specifications	Grid	5	•	New	Accr	History Accr Ben	History Comp. (12312019)	History Comp. (12312018)		
Employees	Wizards			New Detail	39	(12312018) 7.041.42	294,786.00	278,100.00		
Search	Disbursem	ent		New Template	31	16.69	29,260.00	27,604.00		
Grids					85	6.80	48,017.00	45,299.40		
Pind Existing	l.		Em	Cours	66	69.25	43,563.00	41,097.00		
			Em				41,707.00	39,346.00		
			Em				67,817.88			
			Em		49	20.38	41,012.00	38,690.92		
			Em		45	30.56	42,799.00	40,376.00		
			Em		80	56.00	28,496.00	26,883.00		
		Em Find		99	93.91		39,552.00			
			Em		, 45	37.06	41,379.00	39,037.00		
			Em		01	76.16	44,764.00	42,230.00		
			Em		22	35.18	37,776.00	35,638.00		
		the second se	Em	Select Detail	32	88.73	36,357.00	34,299.00		
		*		Split	- 12					
				Copy to Clipboard						
				Export to File						

Employee: View > Grid > Copy to Clipboard

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#6 – Extended History

F. References

- DB Reference Manual
 - Chapter 1: Plan Specifications
 - o Chapter 2: Employee Data
- Grid Manual
 - Chapter 1: Grid Basics



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#1 – American Rescue Plan Act of 2021

#2 – One Participant DC Cash Balance Plan Proposal

#3 – ASC-715 Basics in ASC

#4 – Participant Termination/Optional Forms

#5 – DB Pattern Plans Overview

#6 – Extended History

#7 – Average Compensation Overview

#8 – Traditional Benefit Formula Coding

#9 – Participant Reconciliation with Grids and Formulas

Tuesday, August 10, 2021

#7 – Average Compensation Overview

Topic Roadmap

- A. Overview of Average Compensation in ASC
- B. Average Compensation Options
- C. Average Compensation Storage in Employee Screens
- D. Basic Average Compensation Examples
- E. Advanced Average Compensation Considerations
- F. References

Tuesday, August 10, 2021

#7 – Average Compensation Overview

A. Overview of Average Compensation in ASC

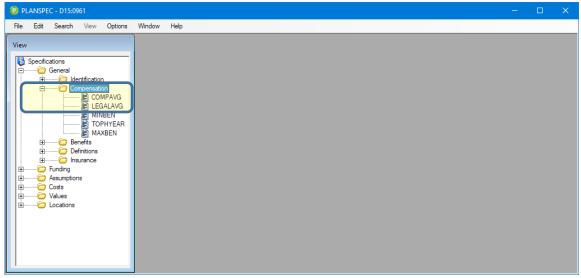
- In general, average compensation results are used to determine or limit benefits.
- For formulas based on average compensation, reviewing the active participants' various average compensation fields and compensation averaging options are steppingstones for how ASC calculates or limits their benefits.
- During Calculations > Valuation, ASC can calculate many compensation averages for participants. Examples of calculated average compensations are:
 - o 415 compensation limits
 - o Top heavy minimum benefits
 - o Projected Benefits

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#7 – Average Compensation Overview

B. Average Compensation Options

• Plan Specifications \ General \ Identification \ Compensation



Plan Specification: Compensation \ COMPAVG screen

• The COMPAVG and LEGALAVG screens contain most of the average compensation options. Other screens have their related options.

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#7 – Average Compensation Overview

B. Average Compensation Options (Continued)

• General \ Identification \ Compensation \ COMPAVG (Compensation Averaging) screen

PLANSPEC - D15:1028	- 🗆 X
File Edit Search View Options	Window Help
View Specifications General G	Compensation Averaging Averaging Period 3 Yrs Exclude Comp during Last Yrs Average during Last 99 Yrs First Year No Change Retirement Year 1 - Annualize if Accr Credit Consecutive Month Avg No Use Consecutive Years Yes OK Cancel

Plan Specification: Compensation \ COMPAVG screen

- Plan Average section for plan benefit calculations:
 - Averaging Period: defines the number of years averaged for their highest averaging period.
 - Exclude Comp during Last: the number of final years to be disregarded in determining plan benefit average compensation.
 - Average during Last: defines the years considered for the average compensation.
 - First, Retirement, and Termination Years: Special options for these years.
 - Note, if First Year is set to 4 Omit Pre-Entry, Consecutive Month Avg should be set to Yes
 - Consecutive Month Avg: determines if average annual or average monthly compensation is determined.
 - Use Consecutive Years: determines if their highest paid years needs to be consecutive for their average
- o Compensation Limits for maximum compensation considered
 - Maximum Compensation: for the plan year compensation limit and reporting in reports.
 - Note, the system applies the applicable 401(a)(17) compensation limit to their HISTORY record for each year.
 - Other options are available on this screen. After selecting a field with your mouse, press <F1> on your keyboard to view Online Help for the details.

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#7 – Average Compensation Overview

B. Average Compensation Options (Continued)

• General \ Compensation \ LEGALAVG (Legal Limit Compensation Averaging) screen

1 PLANSPEC - D15:1028	– 🗆 X
File Edit Search View Options Window Help	
View Specifications General G	t Yrs Exclude Comp during Last Yrs 499 Yrs Average during Last 99 Yrs • TEFRA • First Year 1 - No Change • re if Accr Credit • re if Accr Credit • Termination Year 1 - Annualize if Accr Credit •

Plan Specification: Compensation \ COMPAVG screen

- o Top Heavy Minimum Average section for Top Heavy Benefit purposes
- Maximum Benefit Average section for 415 % of Compensation purposes
 - Limit by 401(a)(17) Compensation should be set to Yes for years beginning after 6/30/2007
- The settings on this screen operate similarly to the options on the COMPAVG screen.

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#7 – Average Compensation Overview

B. Average Compensation Options (Continued)

• Funding \ PPAFASMP (PPA Funding Assumptions) screen

PLANSPEC - D15:1028	- 0	×
File Edit Search View Options	Window Help	
View Specifications General Funding FUNDMETH FUNDMETH FUNDMETH BENFORM BENFORM Costs Costs Costs Costs Costs Costs	PPA Funding Assumptions Tiered Rates Yield Curve No Prior Prior Prior Prior Interest Rate 1 1.75 Interest Rate 2 3.04 Jass 5.36 Salary Scales Salary Scales for Principals Salary Scales Salary Scales Prost-Retirement Mortality Annuity Table RP21C U RP21C U Image: Salary Scale Disability Annuity Soc Sec Salary Scale Disability Annuity Soc Sec Salary Scale Interest Rate 1 for 2012 Yes At Risk Loads Sper Part. Loading	

Plan Specification: Funding \ PPAFASMP screen

- o Salary Scale
 - Only the 1st two salary scales will be used when using group formulas
- o Salary Scale for Principals
 - Set participants' Basic Data \ NAME \ Principal field to Y-Yes to have Salary Scales for Principals apply to these participants
 - Will not apply when using group formulas
- Salary Scales do not impact the calculation of % of pay group formula CB credits

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#7 – Average Compensation Overview

B. Average Compensation Options (Continued)

• Assumptions \ FASB (FASB Assumptions) screen

PLANSPEC - D15:1028	– 🗆 X
File Edit Search View Options	Window Help
View Specifications General Assumptions Assumptions Assumptions Assumptions FASE FORHEAVY FASE FASE CASHBAL Costs C	FASB Assumptions Pre-Retirement Rates are PPA Tiered No Interest Rate 1 3.00 Number of Years 99 Interest Rate 2 3.00 Number of Years 99 Interest Rate 2 3.00 Number of Years 99 Interest Rate 3 3.00 Curve Projected Mortality Paterement Projected Mortality Male Female Projected Mortality Paterement Projected Mortality Male Female Mortality Projection 2 - 2-D Generational Male Female Mortality Projection 2 - 2-D Generational Male Female Mortality Projected Rates Yrs Wife's Younger Yes Heases Married W Heases Married W Cancel

Plan Specification: Assumptions \ FASB screen

- o Salary Scales
 - These salary scale will apply to all participants with no distinction between participants coded as Principals or non-Principals as used by the PPAFASMP screen.
- o Increase Maximum Comp
 - Input to assume increases in Maximum Compensation limits.

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#7 – Average Compensation Overview

B. Average Compensation Options (Continued)

- After changing a compensation selection, run Calculations > Valuation to update the results. In general, Complete Calculations is recommended.
 - However, if Partial Calculation is run starting at Social Security, Average Salaries, Calculate Benefits or Calculate Present Values, all four of these calculations will run and average compensation fields for participants are recalculated.

Valuation	×
C Complete Calculation • Partial Calc	ulation
Partial Calculation	Retired and Vested Valuation
Start Partial Calculation at: Eligibility Social Security Average Salaries Calculate Benefits Calculate Present Values Calculate TLP Costs	C Do not run G Use Funding Assumptions C Use Actuarial Equivalence Assumptions C Use Act. Equiv. Assumptions for Lump Sums Multiple Decrement Overlay
Insurance Individual Costs Totals Plan Costs	Floor/Offset Plans
Eligibility Only Data Checks	Plan
Plan 02/02/2021 Employee 02/02/2021	Options Calculate Effective Interest Rate (EIR)
Valuation Information Last Run Date 12/19/2020 06:05:02 ASC Version 11/01/2020 Patch B 12/14/2020	Date EIR Last Calculated = 12/19/2020
Printer Setup	OK Cancel <u>H</u> elp

Calculations > Valuation menu

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#7 – Average Compensation Overview

C. Average Compensation Storage in Employee Screens

• Employee \ Basic Data \ COMP (Compensation) screen

1 EMPLOYEE - D15:0961	– 🗆 X	
File Edit Search View Options	Window Help	
View Specifications AMME DATE DATE COMP HISTORY ADDRESS Code Code Code Code Code Code Code Cod	Compensation - Adams, John Q Compensation Current Compensation 54,696.11 Extra Compensation Pre-Entry Compensation Current Annual Compensation Rate 54,696.11 Prior Accrual Average 4,356.95 Fresh Start Avg Prior Accrual Average 4,226.18	
Pind Existing Grids Find Existing Find Existing	Top Heavy Minimum Benefit Projected Average 4.356.95 Funding Average 4.356.95 Accrual Average 4.467.14 Accrual Average 4.467.14 Prior Accrual Average 4.467.14 Prior Accrual Average 4.467.14 Prior Accrual Average 4.467.14 OK Cancel	

Employee: Basic Data \ COMP screen

- Plan Benefit, 415 Maximum Benefit, and Top Heavy Minimum average monthly compensation sections show average monthly compensations similarly.
 - Projected Average: the estimated average compensation at retirement with a 0.00% salary scale.
 - Used with death benefits
 - Funding Average: the estimated average compensation at retirement with the PPAFASMP input salary scales applied
 - Used projected benefits for funding or deduction cushions
 - May apply for pre-PPA funding methods
 - Accrual Average: the average compensation as of the valuation date
 - Used for calculating accrued benefit for pay-related plans
 - Prior Accrual Average: the average compensation as of the prior valuation date
 - For EOY valuations, these inputs can impact the Begin of Year Accrued Benefit
 - This value is not calculated during Calculations > Valuation.
 - It is stored during Update to New Period and can be manually entered.

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#7 – Average Compensation Overview

C. Average Compensation Storage in Employee Screens (Continued)

• Employee \ Benefits \ FASB (FASB/Integration) screen

1 EMPLOYEE - D17:0011			– 🗆 X
File Edit Search View Options	Window Help		
View Specifications Basic Data DATE COMP ATE COMP ADDRESS Benefits PROJBENF ACCREENF FASB SOLEPROP Cots SolEPROP Cots Find Existing Find Existing Find Existing Find Exi	FASB/Integration - Adams, John Q FASB Projected Average Comp 4.356.95 Projected Benefit 1.829.91 PlA/Covered Comp 7.222.0 Projected Benefit 293.171 Accrued Benefit Obligation 293.171.0 Service Cost	FASB Assumptions Present Value PV of Benefits Factor at Valuation Retirement 160.20970 293,170.77 Early Retire:	Projected Benefit 7,222.0 Funding Benefit 7,222.0 Accrued Benefit 7,222.0 Certificate PIA 2,011.7

Employee Window: Benefits \ FASB screen

 Projected Average compensations is the estimated average compensation at retirement using the salary scale input and increase maximum assumptions entered on the Assumptions \ FASB screen.

Tuesday, August 10, 2021

#7 – Average Compensation Overview

C. Average Compensation Storage in Employee Screens (Continued)

• Employee \ Costs \ LIABILTY (Liability) screen

1 EMPLOYEE - D17:0011			-		×
File Edit Search View Options	Window Help				
View Specifications Benefits Costs Costs Cos	✓ Liability - Adams, John Q Current Liability Benefit Average Compensation (4,356.95) Minimum Average Compensation (4,356.95) Maximum Average Compensation (4,467.14) EOY Accrued Benefit (4,467.14) EOY Accrued Benefit (4,467.14) OBRA Current Liability 228.141 OBRA Vested Current Liability 239.957 RPA Vested Current Liability 239.957 RPA II Current Liability 251.098.83 RPA II Vested Current Liability 251.098.83	415 Valuation Date Service Valuation Date Participation NRD Date Participation 415 Service Start Date 415 Participation Start Date 415 Immediate Annuity APR 415 Immediate Annuity Benefit 417 415 Immediate LS APR 415 Immediate Lump Sum Benefit Cancel	21.00 21.00 21.00 01/01/2000 AEQ 141.529 \$ Max 19.166.66 AEQ 141.529	Statutory 150.953 % Max 4.467.14 Statutory 144.455	

Employee Window: Costs \ LIABILTY screen

- Benefit Average, Minimum Average, Maximum Average are the end of year plan accrued benefit, top-heavy and 415 maximum compensation averages
 - These are used for the calculation of end of year accrued benefits

Tuesday, August 10, 2021

#7 – Average Compensation Overview

D. Basic Average Compensation Examples

Example Participant Data	Related Plan Specifications	Related Plan Specifications	
 Hire Date: 06/21/2019 18 completed months of employment Entry Date: 7/1/2020 6 months of participation 12/31/2019 Compensation in HISTORY: 33,540.00 Current Compensation on COMP screen: 67,817.88 	• 1/1/2021 BOY Valuation		

• Settings on the General \ Compensation \ COMPAVG screen will be adjusted to illustrate the impact on the participant's Basic Data \ COMP \ Plan Benefit Accrual Average compensation.

Employee: Basic Data \ COMP screen

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#7 – Average Compensation Overview

D. Basic Average Compensation Examples (Continued)

Example 1 – Yearly	Example 2 – Monthly	Example 3 – Omit Pre-Entry	Example 4 – Annualize
Plan Average	Plan Average	Plan Average	Plan Average
Averaging Period 3 Yrs			
Exclude Comp during Last Yrs			
Average during Last 99 Yrs			
First Year 1 - No Change	First Year 1 - No Change	First Year 4 - Omit Pre-Entry V	First Year 2 - Annualize
Retirement Year 1 - Annualize if Accr Credit -	Retirement Year 1 - Annualize if Accr Credit 💌	Retirement Year 1 - Annualize if Accr Credit -	Retirement Year 1 - Annualize if Accr Credit -
Termination Year 1 - Annualize if Accr Credit -	Termination Year 1 - Annualize if Accr Credit -	Termination Year 1 - Annualize if Accr Credit -	Termination Year 1 - Annualize if Accr Credit -
Consecutive Month Avg No 💌	Consecutive Month Avg Yes 🔻	Consecutive Month Avg Yes 💌	Consecutive Month Avg Yes 💌
Use Consecutive Years Yes 💌			
Compensation Considered	Compensation Considered	Compensation Considered	Compensation Considered
2019: 33,540.00:	2019: 33,540.00:	2019: 0.00	2019: Compensation / Days in First
2020: 67,817.88	2020: 67,817.88	2020: 67,817.88	Yr x 372 = 63,334.42
Divisor	Divisor	Divisor	2020: 67,817.88
Yearly = $2 \times 12 = 24$	Completed Months = 18	Completed Months = 6	<u>Divisor</u>
			Completed Months = 18
Accrual Average	Accrual Average	Accrual Average	Accrual Average
(33,540.00 + 67,817.88) / <mark>24</mark> =	(33,540.00 + 67,817.88) / <mark>18</mark> =	67,817.88 / <mark>6</mark> = <u>11,302.98</u>	(63,334.42 + 67,817.88) / 18 =
4,223.25	<u>5,630.99</u>		<u>7,286.24</u>
Plan Benefit	Plan Benefit	Plan Benefit	Plan Benefit
Projected Average 5.651.49	Projected Average 5,651.49	Projected Average 5.651.49	Projected Average 5.651.49
Funding Average 10,831.72	Funding Average 10,831.72	Funding Average 10.831.72	Funding Average 10.831.72
Accrual Average 4,223.25		Accrual Average 11,302.98	Accrual Average 7,286.24
Accidal Average 4.223.23	Accrual Average 5.630.99	Acciudi Average 11,302.30	Accidal Average 7,200.24

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#7 – Average Compensation Overview

E. Advanced Average Compensation Considerations

- Employee HISTORY records
 - If the compensation field in an employee's record is left blank, years surrounding the blank year will be treated as consecutive for calculating average compensation
- Employee: Basic Data \ COMP \ Extra Compensation and HISTORY \ Ext A \ Excluded Compensation
 - Can be used to store compensation for maximum or minimum benefit purposes but not be included for plan benefit average compensation.
- Employee Multi-Decrement Support Report
 - Generated during Calculations > Valuation if their Basic Data \ NAME \ Print Multi-Decrement Support is set to one of the Y options
 - o Report provides helpful details on historical and projected compensation averages

Age	Plan <u>Comp</u>	Minimum <u>Comp</u>	Maximum <u>Comp</u>
38 ¹	5,277.87	2,795.00	2,795.00
39^{3}	7,286.24	4,223.25	4,223.25
40	6,700.10	4,755.80	4,755.80
41	5,822.53	5,065.64	5,822.53
42	5,997.22	5,287.63	5,997.22

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#7 – Average Compensation Overview

E. Advanced Average Compensation Considerations (Continued)

- Plan Specification \ General \ Compensation \ COMPAVG \ Compensation is Input field
 - o Set to No, turn off the 415 % of Compensation limit.
 - Often used for frozen plans that do no load compensation history.

PLANSPEC - D15:1028		×
r (Window Help Compensation Averaging Plan Average Averaging Period Averaging Period Yrs Average during Last Yrs Average during Last Yrs First Year Average during Last First Year 1 - Average during Last Termination Year 1 - Annualize If Acroualize If Acroualiz	

Plan Specification: Compensation \ COMPAVG screen

- Cash Balance Plans
 - Generally, cash balance plans do not use average compensation with the benefit formulas
 - Instead, employee's Current Compensation and Current Annual Compensation Rate are used.
 - Cash Balance Contribution credits calculated using Unitized Minimum programming do use their plan benefit average compensation
 - Set Plan Specifications \ COMPAVG: Averaging Period and Average during Last both to **1** to achieve current annual compensation testing method

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#7 – Average Compensation Overview

F. References

ASC	Client S	upport Ce	nter	Search ASC FAQs	ρ
NEW INCIDENT	VIEW INCIDENTS	SEARCH	REPORTS	FILE MANAGER	BILLING
FAQs /	SC				
+ Actian S	QL				
+ Daily Val	- DV Direct				
+ DC - Cor	mpliance				
+ DC - Red	cordkeeping				
- Defined	Benefit				
F	AQ 480: Comp	ensation	average c	alculation	
	AQ 911: Cushi				arv incre:

- DB Reference Manual
- Online Help
 - o <F1> on keyboard to access online help for each employee or plan specifications field



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#1 – American Rescue Plan Act of 2021

#2 – One Participant DC Cash Balance Plan Proposal

#3 – ASC-715 Basics in ASC

#4 – Participant Termination/Optional Forms

#5 – DB Pattern Plans Overview

#6 – Extended History

#7 – Average Compensation Overview

#8 – Traditional Benefit Formula Coding

#9 – Participant Reconciliation with Grids and Formulas

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

Topic Roadmap

- A. Setting Up the ACCRUAL Screen
- B. Setting Up Benefit Formula Screens
- C. Fractional Benefit, Unit Benefit, and Fresh Start Examples
- D. References

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

A. Setting Up the ACCRUAL Screen

PLANSPEC - D17:0012		-	×
File Edit Search View Options	Window Help		
View Specifications General General General Comparison Compa	Accrual 5 - Unit per Formula Options Starting Date 2 - Yr/Yr Proj Avg Accrual before Apply Max Basis of Year 3 - Z per Year Accrual before Apply Mix Days in First Year 3 - Z per Year Accrual before Apply Mix Hours - Write Year - Carcel Percentage Accrual Percent per Year - Age Percent per Year - Age 18 OK Cancel Cancel	imum Yes v erves No v ir End No v	

Plan Specification: General \ Identification \ ACCRUAL screen

- Type of Accrual options
 - 1 Yr/Yr Project Avg
 - A fractional accrual of years over years, to a projected benefit based on a projected average salary.
 - 2 Yr/Yr Curr Avg
 - Fractional Accrual where service <u>is not</u> limited to a number of years and based on current average salary
 - o Often used with FLATBENF type formulas
 - 3 % per Year
 - Accrual based on a percentage per year.
 - 4 Front End
 - Fractional Accrual where service <u>is</u> limited to a number of years as input on the Years for Full Accrual field.
 - Often used with FLATBENF type formulas
 - 5 Unit Per Formula
 - Accrual based on the service entered on the formula screens.
 - Often used with UNITBENF, CARRBENF, and Cash Balance formulas.

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#8 – Traditional Benefit Formula Coding

A. Setting Up the ACCRUAL Screen (Continued)

PLANSPEC - D17:0012		- 0	×
File Edit Search View Options Wir	lindow Help		
Specifications	Accrual Method Type of Accrual 4 - Front End Starting Date 4 - BOY Entry Basis of Year 2 - Plan Year Days in First Year 3 - Entry Hours 5 - BOY Entry Basis of Year 3 - Entry Basis of Year 4 - BOY Entry Basis of Year 3 - Entry Basis - Entry Basis - Entry Basis - Exclude Years > Effective Date Year Soft Bigbble Excl. Years < Effective Date		

Plan Specification: General \ Identification \ ACCRUAL screen

- Starting Date options
 - 1 Hire
 - Accrual periods are employment anniversary years starting with hire date and ending each 12 months thereafter
 - 2 Plan Year
 - Accrual period use the same fiscal year as the plan year
 - Does not limit to service while a participant
 - 3 Entry
 - Accrual period are the years starting with entry date and ending each 12 months thereafter
 - 4 BOY Entry
 - Accrual period uses the same fiscal year as the plan year but starts with the first year of participation
 - Recommended for cash balance plans
 - 5 BOY Eligible
 - Accrual period uses the same fiscal year as the plan year but starts with the first year a participant could have been eligible if the plan was in existence
 - These options can impact the calculation of the Basic Data \ DATE \ Accrual Start date for participants with status code B or C. Manually changing their Accrual Start date is possible with status code A participants but review the results to ensure they are as expected.

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

A. Setting Up the ACCRUAL Screen (Continued)

PLANSPEC - D17:0012		—	×
File Edit Search View Options Wi	Vindow Help		
Specifications General Genera	Starting Date 5 - BOY Eligible Accrual before Apply Minimum		
<	OK Cancel		

Plan Specification: General \ Identification \ ACCRUAL screen

- Basis of Year Options:
 - 1 Exact Year
 - Accrual service is prorated on the number of days out of each year
 - ASC counts each month to have 31 days for a 372-day year
 - 2 1,000 Hours
 - In general, if hours equal or exceeds 1,000 hours then that year is counted for benefit service
 - 3 500 Hours
 - In general, if hours equal or exceeds 500 hours then that year is counted for benefit service
 - 4 X Hours
 - In general, if hours equal or exceeds the hours requirement input in the Hours field then that year is counted for benefit service
 - Note, Days in First Year and Retirement year may impact whether a year is considered

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

A. Setting Up the ACCRUAL Screen (Continued)

PLANSPEC - D17:0012	-	×
File Edit Search View Options V	Window Help	
View Specifications General General	Accrual Method Type of Accrual 5 - Unit per Formula Starting Date 5 - BOY Eligible Basis of Year 2 - 1000 Houre Days in First Year 163 Hours Accrued Benefit Minimum Reserves Excl. Years < Effective Date	

Plan Specification: General \ Identification \ ACCRUAL screen

- o Days in First Year and Retirement Year
 - In general, these days in first or retirement year have two effects:
 - For the first or retirement year, if that year has less than the number of days input, that year is generally excluded
 - If hours are not input for the first or retirement year (often for their projected benefits), then the number of days is used to estimate if they met the accrual retirements
 - The 163 entered above in Days in First Year is 5 months, 1 week and a day (5 x 31+7+1 = 163)
 - The 186 entered above in Days in Retirement Year is 6 months (6 x 31 = 186) If hours are blank, 2080 hours are assumed for the year.
 - Do not input 1,000 hours if not importing actual hours. That may cause unexpected results for eligibility or projected benefits

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

A. Setting Up the ACCRUAL Screen (continued)

PLANSPEC - D15:1046	- 0	
File Edit Search View Options	Window Help	
View Specifications General Control Control Control	Method Image: Starting Date 5 - Unit per Formula Image: Starting Date 4 - BOY Entry Image: Starting Date Accrual before Apply Maximum Yes Yes Accrual before Apply Maximum Yes Yes Yes Accrual before Apply Maximum Yes <td< td=""><td></td></td<>	

DB Plan Specification: General \ Identification \ ACCRUAL screen

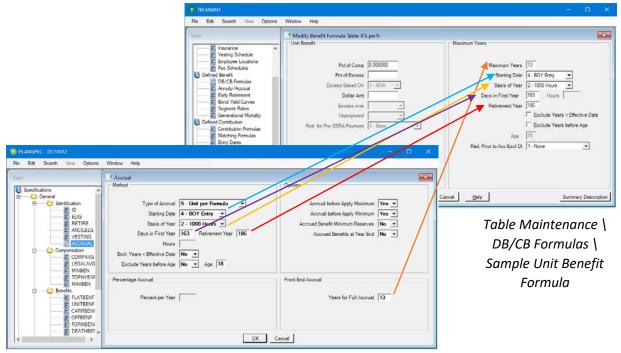
- o Other ACCRUAL screen settings to consider
 - Excl. Years < Effective Date
 - Set this to **Yes** to exclude service before the effective date
 - Accrual before Apply Maximum
 - For fractional accruals this defines whether the accrual fraction shall be applied before or after the application of the maximum benefit.
 - For Unit Accruals, this should be set to Yes
 - Accrual Before Apply Minimum
 - For fractional accruals this defines whether the accrual fraction shall be applied before or after the application of the minimum benefit (other than top heavy)
 - Years for Full Accrual
 - For Front End and Unit Accrual methods, this input will be used for the maximum number of accrual years

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

A. Setting Up the ACCRUAL Screen (Continued)

- Plan Specifications \ General \ Identification \ ACCRUAL screen (Continued)
 - o ACCRUAL screen selections should generally match the coded benefit formula screen(s)
 - The benefit formula options operate similarly but apply to benefit service calculations instead of accrual service calculations
 - Both exclude years options also match between the two sample screens below
 - The Calculations window may provide warning messages if the settings are different.



Plan Specification: General \ Identification \ ACCRUAL screen

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#8 – Traditional Benefit Formula Coding

B. Setting Up Benefit Formula Screens

• Plan Specifications \ General \ Benefits \ FLATBENF screen

PLANSPEC - D17:0012	– 🗆 X
File Edit Search View Options	Window Help
View Specifications General Definition	Flat Retirement Benefits Flat Benefit Pct of Comp 80.000 Pct of Comp 80.000 Pct of Excess Excess Based On 1 - NRA Dollar Amt Excess over Unprojected Reduce for Years Social Security Years/Years Reduction Reduction Prior to Acc Excl Dt 1 - None Reduced for Yrs/Yrs No
COMPAVG ELEGALAVG TOPHYEAR TOPHYEAR MAXBEN Comparison C	Reduce for Years Less Than 25 Starting Date 0 - None Starting Date 4 - BOY Entry Basis of Year Basis of Year 2 - 1000 Hours Days in First Year 163

Plan Specification: General \ Benefits \ FLATBENF screen

- o Generally, to be used with Accrual Types of Yr/Yr Curr Avg or Front End
- Pct of Comp and Dollar Amt
 - Standard benefit formula options
- Pct of Excess and Excess over:
 - Used for integrating with social security
- o Reduce for Year Less Than
 - Used for prorating the benefit formula for participant that have less than the projected number of years as input
- o Other Settings
 - Review Online Help for additional details on other options

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

B. Setting Up Benefit Formula Screens (Continued)

• Plan Specifications \ General \ Benefits \ OFFBENF screen

Plan Specification: General \ Benefits \ OFFBENF screen

- To be used in conjunction with the FLATBENF screen for integrating with social security using the offset design.
- o Review Online Help or DB Reference Manual for details on these options.
- Benefit Description
 - For traditional DB benefit formula types (UNITBENF, FLATBENF, ETC), there is an option to input a customized benefit description for the Summary of Plan Provisions report

Retirement Benefit Description	×
Description	
DESCRIPTION OF BENEFIT FORMULA	
OK Cancel <u>H</u> elp	

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

B. Setting Up Benefit Formula Screens (Continued)

• Plan Specifications \ General \ Benefits \ UNITBENF screen

PLANSPEC - D17:0012		– 🗆 X
File Edit Search View Options	Window Help	
View Specifications General Comparison Comparison	Vnit Retirement Benefits Pet of Comp 6.000 Pet of Excess Excess Based On 1 - NRA ▼ Dollar Amt Excess over Unprojected Red. for Pre-SSRA Payment 1 - None ▼	Maximum Years Red. Prior to Acc Excl Dt 1 - None Maximum Years 13 Starting Date 4 - BOY Entry Basis of Year 2 - 1000 Hours Days in First Year 163 Retirement Year 186 Hours 1 Exc. Yrs < Eff Date
< >	OK	Cancel Benefit Description

Plan Specification: General \ Benefits \ UNITBENF screen

- Generally, to be used with Accrual Types of Unit Accrual
- o Pct of Comp and Dollar Amt
 - Standard benefit formula options
- Pct of Excess and Excess over
 - Used for integrating with social security
- o Maximum Years
 - Used for limiting the number of years considered for the benefit formula

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

B. Setting Up Benefit Formula Screens (Continued)

- Plan Specifications \ General \ Benefits \ UNITBENF screen (Continued)
 - o Red. Prior to Acc Excl Dt: (excerpt of the available options)
 - Based on Accrual Exclusion Date entered on General \ Identification \ ID screen
 - 2 All Years
 - All years before the Accrual Exclusion Date will be excluded from the benefit service but Reduced for Years Less Than begins at the original Starting Date
 - 4 Total (<=35)
 - Years before the Accrual Exclusion Date will be excluded from the benefit service reduction for application to the total benefit. A cap on benefit service of 35 years is applied from the original starting date.
 - 5 Fresh Start
 - Service for the above formula begins at the Accrual Exclusion Date. Any benefits coded in the individual's record as additional benefits are added on to the formula benefit.

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#8 – Traditional Benefit Formula Coding

B. Setting Up Benefit Formula Screens (Continued)

• Plan Specifications \ General \ Benefits \ CARRBENF screen

PLANSPEC - D17:0012		-		×
File Edit Search View Options	Window Help			
View Specifications General General	Career Average Retirement Benefits Career Average Retirement Benefits Pct of Comp Pct of Excess Excess Based On Pct of Excess Excess Based On Pct of Excess Excess over Cuprojected Red. for Pre-SSRA Payment Pcture Complexity Pct of Excess	Vic Credit % 25.00 50.00 75.00 100.00		
< >	OK Cancel	Benefit Des	cription	

Plan Specification: General \ Benefits \ CARRBENF screen

- To be coded in conjunction with the UNITBENF screen
- Career Average formulas calculate the current accrual based on current compensation, rather than average, which is then added to the Prior Accrued Benefit
- o Credit Service Percentages
 - Can be coded for up to 10 levels for prorating the accrual for the year based on a range of hours
- o Date of Formula Change for Prior Unit Benefit
 - If a date is entered here, the above formula will be applied to final average compensation using service prior to this date. This calculated prior service benefit will then be added to the benefit calculated based on service after this date and the formula on the UNITBENF screen.

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#8 – Traditional Benefit Formula Coding

B. Setting Up Benefit Formula Screens (Continued)

• Plan Specifications \ General \ Benefits \ FORMBENF screen

PLANSPEC - D17:0012				×
File Edit Search View Options	Window Help			
View Specifications General General	Formula Retirement Benefits Benefit Formula Table Group 1 Group 2 Group 1 Group 2 Joz YOP ▼ Unit Benefit Group 3 Group 4 Zz YOP ▼ Unit Benefit Group 5 Group 5 Group 6 ▼ Group 7 Group 8 ▼ Group 9 Group A ▼ OK Cancel	Cash Bal Contribution	Dollar Amt	×

DB Plan Specification: General \ Benefits \ FORMBENF screen

- o Group Formula Tables are used when more than 1 formula is needed in a single plan
- Benefit formula is set up in Table Maintenance and can be selected for the above assigned groups
- Set Employee's Basic Data \ NAME screen Principal Code to **1** through **9** or **A** to assign a benefit formula to them.
- If an employee's Principal code is set to **Y** or **N** then their benefit would be calculated based on the other benefit formula screens coded in plan specifications.

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#8 – Traditional Benefit Formula Coding

B. Setting Up Benefit Formula Screens (Continued)

• Plan Specifications \ Funding \ BENFORM screen

PLANSPEC - D16:0041		– 🗆 X
File Edit Search View Options	Window Help	
View FORMBENF DEATHBEN DEATHBEN DEATHBEN DEMEC	Penefit Forms Funding Benefits Percent to Survivor Percent Males Married 100 Post-Retirement COLA Top Heavy Minimum Benefits Years Certain Percent to Survivor Post-Retirement COLA OK	Accrued Benefits Years Wife's Younger Percent Males Married 100 Percent Females Married 100 Post-Retirement COLA Options Options Override Annuity Rates by Individual No Calculate Annuity Rates Payable Annually No Fund to Lump Sum Limited by 415 Yes Pct Assumed to Receive Lump Sum 100 Cancel

Plan Specification: General \ Benefits \ BENFORM screen

- By default, if the Years Certain and Percent to Survivor are blank, calculations will be based on a single life annuity for the normal form of benefits.
- Enter a value into either of these fields to change the normal form
- o Changing the normal form will impact the factors used in the calculations

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

B. Setting Up Benefit Formula Screens (Continued)

• Plan Specifications \ General \ Compensation \ MINBEN screen

PLANSPEC - D15:1054	— — — — · · · ·	×
File Edit Search View Options	Window Help	
View Specifications General Compensation Costs Costs Costs Costs	Iminum Benefits Top Heavy Minimum Benefit Minimum Percent Maximum Years Starting Date 4 - BOY Entry • Basis of Year 2 - 1000 Hours • Days in First Year 163 Hours Starting Date Exc. Yrs < Eff Date	

Plan Specification: General \ Compensation \ MINBEN screen

- Use for All Years, not just Top Heavy Years
 - No
- The Minimum Percent is applied to top heavy average compensation in top heavy years only up to the Maximum Years
- Yes
 - The Minimum Percent is applied to top heavy average compensation for all plan years (whether top heavy or not) up to the Maximum Years
- o Offset to Benefit Applies to Minimum Only
 - Yes
 - For plans with offset benefits for participants, the system will apply the offset to the top heavy minimum benefit only
 - No
- For plans with offset benefits for participants, the system will apply the offset to a participant's total benefit. See Offset Applied after Top Heavy Minimum field below

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#8 – Traditional Benefit Formula Coding

B. Setting Up Benefit Formula Screens (Continued)

- Plan Specifications \ General \ Compensation \ MINBEN screen (Continued)
 - o Minimum Applies to Non-Key Only
 - No
 - Provide top heavy minimum benefits to non-key participants only
 - Yes
 - Provide top heavy minimum benefits to all participants, key and nonkey
 - o Offset Applied after Top Heavy Minimum
 - For plans with offset benefits, the coding in this field determines if the benefit offset is applied to determine the accrued benefit
 - The benefit offset is always applied to the projected and funding benefits
 - No
 - Limits the accrued benefit to the greater of a) the top heavy minimum benefit without the offset applied, and b) the plan formula benefit with the offset applied
 - Yes
 - Limits the accrued benefit to the greater of a) the top heavy minimum benefit after offset, and b) the plan formula benefit after offset

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

B. Setting Up Benefit Formula Screens (Continued)

• Plan Specifications \ General \ Compensation \ MAXBEN screen

PLANSPEC - D15:1054		– 🗆 X
File Edit Search View Options	Window Help	
View Specifications General Compensation Compensation Compensation Compensation MiNBEN MINBEN MAXGEN MAXGEN MAXGEN MAXGEN Compensation MINBEN MAXGEN M	Maximum Benefits 415 Maximum Benefit 62 to 65 19,166.66 Reduce for Years Less Than 10 Starting Date 4 - BOY Entry Basis of Year 2 - 1000 Hours Days in First Year 1 Retirement Year 163 Hours 1 Exc. Yrs < Eff Date No Exc. Yrs before Age No Age 18 Forced Max Benefits 1 - Maximum Benefits	Plan Maximum Benefit Maximum Benefit 99,999.99 Reduce for Years Less Than 10 Starting Date 2 - Plan Year Basis of Year 2 - 1000 Hours Days in First Year 163 Retirement Year 186 Hours 1 Exc. Yrs < Eff Date No Exc. Yrs before Age No Age 18 Cancel

Plan Specification: General \ Compensation \ MAXBEN screen

- o Starting Date
 - Defines the date from which the system will begin counting years of service for the above requirement
 - For plans that count years for the 415 dollar limit based on plan years of participation, enter 4 – BOY Entry
 - For plans that define participation for the 415 dollar limit as elapsed time or as anniversary years based on hours, enter 3 – Entry
- Exc. Yrs < Eff Date
 - Enter Yes to exclude service before the plan effective date for all 415 purposes, including for the purpose of counting years of service for determining the 415 percent of pay maximum limit.
 - Plans with Starting Date set to 3 Entry or 4 BOY Entry, who count all years of service from date of hire for determining the 415 percent of pay maximum benefit should enter No in this field.
- Run Calculations > Valuation to update the results after setting up the benefit formula and participant records

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#8 – Traditional Benefit Formula Coding

- Example 1: Flat Benefit with Front End Accrual
 - Plan Design: 80% Fractional Accrual with 25 Plan Years of Participations for Full Accrual where a year is 1,000 hours. The 80% is reduced for participants with less than 25 years

PLANSPEC - D17:0016		-	×
File Edit Search View Options	Window Help		
Specifications General Identification ELIG RETIRE AVCILELG VESTING ACCRUAL Compensation	Accrual	Yes 🔻	
Benefits FLATBENF UNITBENF CARRBENF CARRBENF CARRBENF CARBENF DEATHBEN DEATHBEN DEATHBEN DEATHBEN COTHERBEN MEEC Compositions Compositions	Exclude Years before Age No Age 18 Percentage Accrual	25	

Plan Specification: General \ Benefits \ ACCRUAL screen

- o Plan Specification settings
 - Type of Accrual
 - Select 4 Front End for fractional accrual method
 - Years for Full Accrual
 - Enter 25 years for the Full Accrual option
 - Starting Date
 - Select **4 BOY Entry** because accrual service starts the first of the plan year they entered the plan
 - Basis of Year
 - Select **2 1000 Hours** for 1,000 hour accrual requirements

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

- Example 1: Flat Benefit with Front End Accrual (Continued)
 - Plan Design: 80% Fractional Accrual with 25 Plan Years of Participations for Full Accrual where a year is 1,000 hours. The 80% is reduced for participants with less than 25 years

100 PLANSPEC - D17:0016		—		×
File Edit Search View Options Wind	dow Help			
View	Desp Flat Retirement Benefits Tat Benefit Pct of Comp 80.000 Excess Based On 3 - SSRA < Dollar Amt	Yrs No	-	
	Exc. Yrs before Age No 💌 Age 18 No 💌 Exc. Yrs before Age No 💌	· Age 1	3	
Funding	OK Cancel	Benefit De	escripti	on

DB Plan Specification: General \ Benefits \ FLATBENF screen

- o Plan Specification settings
 - Pct of Comp
 - Enter 80.0 for the plan's 80% Pct of Comp benefit formula
 - Reduce for Years Less than
 - Enter **25** to reduce the 80% for participants with less than 25 years of total accrual service
 - Other parameters are set to match the ACCRUAL screen

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

- Example 1: Flat Benefit with Front End Accrual (Continued)
 - Plan Design: 80% Fractional Accrual with 25 Plan Years of Participations for Full Accrual where a year is 1,000 hours. The 80% is reduced for participants with less than 25 years
 - o Participant service and compensation results for the benefit formula as of 12/31/2020

1 EMPLOYEE - D17:0016	-	<
File Edit Search View Options	Window Help	
View Specifications Basic Data CATE COMP HISTORY HISTORY Benefits Benefits Benefits FASB HISTUR FASB HISTUR HISTURENF HISTORY	Input Calculated Retirement Birth 08/16/1981 Entry 07/01/2020 Hire 06/21/2019 EAN Entry 01/01/2020 Termination Accrual Start 01/01/2020 Early Retirement Rehire/Trans Vesting Start 01/01/2020 Early Retirement Spouse Birth Fully Vested 01/01/2025 Early Retirement	
Costs Employees Find Existing Search Grids Find Existing Find Existing	Service Years Accrued 1.00 Participation Status Hours Total Accrual Years 27.00 Primary B Hour Rate OK Cancel	

Employee: Basic Data \ DATE screen

😰 EMPLOYEE - D17:0016		– 🗆 X
File Edit Search View Options	Window Help	
View Specifications Basic Data DATE DATE COMP HISTORY HISTORY Benefits Denefits Contention FASB INSUR I	Compensation - Taylor, Zachary Compensation Current Compensation Extra Compensation Pre-Entry Compensation Current Annual Compensation Rate 67,817.88	Plan Benefit Projected Average 5,651.49 Funding Average 8,914.90 Accrual Average 4,223.25 Fresh Start Avg Prior Accrual Average
PASE INSUR SOLEPROP ■ → Costs Encloyees → Find Existing → Search Grids → Find Existing	Top Heavy Minimum Benefit Projected Average 5.651.49 Funding Average 9.093.26 Accrual Average 4.223.25 OK	415 Maximum Benefit Projected Average 5.651.49 Funding Average 9.090.99 Accrual Average 4.223.25 Prior Accrual Average

Employee: Basic Data \ COMP screen

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#8 – Traditional Benefit Formula Coding

- Example 1: Flat Benefit with Front End Accrual (Continued)
 - Plan Design: 80% Fractional Accrual with 25 Plan Years of Participations for Full Accrual where a year is 1,000 hours. The 80% is reduced for participants with less than 25 years

TR EMPLOYEE - D17:0016				- 🗆	
File Edit Search View Option	Window Help	Vestina	Early Retirement		×
Basic Data Basic Data DATE COMP HISTORY DATESS Denefits	Accrued Benefit Base 3.378.60 Prior Accrued Benefit Base 3.378.60 Prior Accrued Benefit 135.14 Begin. of Yr. Accrued Benefit 135.14 BOY 415 Accrued Benefit 844.65	Vested Percent 20.00 Prior Vested Pct	Early Neurement Eligibility Code Accrued Benefit Disability Disability Benefit	2.039	
PROJECNF ACCRBENF ACCRBENF ACCRBENF FASB INSUR SOLEPROP Ords Costs Profesting Search Grids Profesting Find Existing Profesting Find Existing	Statement/Compliance BOY CB Accrued Benefit EOY CB Accrued Benefit Maximum Accrual Current Year 415 Max Annuity Normal Form Type 0 - Plan Normal Form Certain Period Percent to Survivor	Present Value of Accrued Benefit Actuarial Equiv. 4,936 for Top Heavy 3,873 for 417(e) 10,469,00 of Accrd ER Ben 74,480 PVAB for PBGC Prem 8,043 PVVAB for Lookback PBGC for PPA 8,043,00	Annuity Rate Actuarial Equiv. for Top Heavy for 417(e) of Accrd ER Ben for Cash Bal Conv for PBGC Prem - LS for PBGC Prem - Ann	130.389 77.467 141.529 65.798	

Employee: Basic Data \ ACCRBENF screen

- o Participant Accrued Benefit result for the benefit formula as of 12/31/2020
 - Factors
 - 80% of average compensation reduced for years less than 25
 - Years Accrued: 1
 - Total Accrual Years: 27 (max of 25)
 - Accrual Average Comp: 4,223.25
 - Accrued Benefit Calculation
 - 80% x Accrual Average Comp x (Total Accrual Years / Reduced Less Than 25) x (Years Accrued x Total Accrual Years)
 - 0.80 x 4,223.25 x (25 / 25) x (1 / 25) = <u>135.14</u>

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#8 – Traditional Benefit Formula Coding

- Example 2: Unit Benefit with Unit Accrual
 - o Plan Design: 4% Unit Accrual per year of participation for maximum 25 years

PLANSPEC - D17:0017		– 🗆 🗙
File Edit Search View Options	Window Help	
View Specifications General Compensation Compensation Compensation Compensation Consents	Accrual Type of Accrual 5 - Unit per Formula ▼ Starting Date 4 - BOY Entry ▼ Basis of Year 2 - 1000 Hours ▼ Days in First Year 163 Retirement Year 186 Hours Excl. Years < Effective Date No ▼ Exclude Years before Age No ▼ Age 18 Percentage Accrual Percent per Year	Options Accrual before Apply Maximum Yes Accrual before Apply Minimum Yes Accrued Benefit Minimum Reserves No Accrued Benefits at Year End No Front End Accrual Years for Full Accrual 25 Cancel

Plan Specification: General \ Benefits \ ACCRUAL screen

- o Plan Specification settings
 - Type of Accrual
 - Select 5 Unit per Formula for unit accrual method
 - Years for Full Accrual
 - Enter 25 years for the Full Accrual option
 - Starting Date
 - Select **4 BOY Entry** because accrual service starts the first of the plan year they entered the plan

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

C. Fractional Benefit, Unit Benefit, and Fresh Start Examples (Continued)

- Example 2: Unit Benefit with Unit Accrual (Continued)
 - o Plan Design: 4% Unit Accrual per year of participation for maximum 25 years

PLANSPEC - D17:0017		– 🗆 🗙
File Edit Search View Options	Window Help	
View Specifications General General	Pct of Comp 4.000 Pct of Excess Excess Based On 3 - SSRA v Dollar Amt Excess over v Unprojected v Red. for Pre-SSRA Payment 1 - None v	Maximum Years Red. Prior to Acc Excl Dt 1 - None Maximum Years 25 Starting Date 4 - BOY Entry • Basis of Year 2 - 1000 Hours • Days in First Year 163 Retirement Year 186 Hours 1 Exc. Yrs < Eff Date No ▼ Exc. Yrs before Age No ▼ Age 18 Cancel Benefit Description

DB Plan Specification: General \ Benefits \ UNITBENF screen

o Plan Specification settings

- Pct of Comp
 - Enter 4.0 for the plan's 4% Pct of Comp benefit formula
 - Reduce for Years Less than
 - Enter 25 to a maximum 25 years of total accrual service years
- Other parameters are set to match the ACCRUAL screen

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

- Example 2: Unit Benefit with Unit Accrual (Continued)
 - o Plan Design: 4% Unit Accrual per year of participation for maximum 25 years
 - o Participant service and compensation results for the benefit formula as of 12/31/2020

1 EMPLOYEE - D17:0017	– 🗆 ×	
File Edit Search View Options	Window Help	
View Specifications NAME NAME COMP HISTORY HISTORY Benefits PROJBENF FASB INSUB I	Pates and Status - Buchanan, James Retirement Input Birth 02/01/1967 Hire 07/02/1984 Entry 02/01/1988 Termination Accrual Start 01/01/1988 Rehire/Trans Vesting Start 01/01/1980 Spouse Birth Fully Vested 01/01/1990	
B — — — Costs B — Employees → Find Existing → Search Grids → Pind Existing	Service Calculated Service Participation Status Hours Total Accrued 33.00 Hour Rate Pre-Fresh Start Primary Years of Vesting 37.00	
	OK Cancel	

Employee: Basic Data \ DATE screen

😰 EMPLOYEE - D17:0017		– 🗆 X
File Edit Search View Options	Window Help	
View Specifications AME ADATE ADDATE ADDRESS Benefits ACCRBENF ACCRBENF	Compensation - Buchanan, James Compensation Current Compensation Extra Compensation Pre-Entry Compensation Current Annual Compensation Rate 62,846.79	Plan Benefit Projected Average 5,237,23 Funding Average 5,237,23 Accrual Average 5,013.03 Fresh Start Avg Prior Accrual Average 4,870.58
PROJEENF ACCREENF ACCREENF FASB INSUR SOLEPROP Costs Employees Find Existing Grids Find Existing Find Existing	Top Heavy Minimum Benefit Projected Average 5.237.23 Funding Average 5.237.23 Accrual Average 5.013.03 OK	415 Maximum Benefit Projected Average 5,237,23 Funding Average 5,237,23 Accrual Average 5,132,83 Prior Accrual Average 5,014.86

Employee: Basic Data \ COMP screen

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#8 – Traditional Benefit Formula Coding

- Example 2: Unit Benefit with Unit Accrual (Continued)
 - o Plan Design: 4% Unit Accrual per year of participation for maximum 25 years

1 EMPLOYEE - D17:0017			– 🗆 X
File Edit Search View Options	Window Help		
View Specifications Basic Data DATE ADDRESS ADDRESS Providentias Providentias	Accrued Benefits - Buchanan, James Accrued Benefits Accrued Benefit Base 5,013.02 Prior Accrued Benefit 4,870.58 Accrued Benefit 5,013.03 Begin. of Yr. Accrued Benefit 5,013.03 BOY 415 Accrued Benefit 5,132.83 Statement/Compliance	Vesting Vested Percent 100.00 Prior Vested Pct 100.00	Early Retirement Eligibility Code 6 Accrued Benefit 2.361 Disability Disability Benefit
PROJBENF ACCRBENF FASB INSUR SOLEPROP SolerProP Find Existing Grids Find Existing Find Existing	BOY CB Accrued Benefit BOY CB Accrued Benefit EOY CB Accrued Benefit Current Year 415 Max 1.666.67 Annuity Normal Form Type 0 - Plan Normal Form Certain Period Percent to Survivor	Actuarial Equiv. 389,110 for Top Heavy 344,330 for 417(e) 658,795.00 of Accrd ER Ben 183,337 PVAB for PBGC Prem 542,484 PVVAB for Lookback PBGC 345,034.00 for PPA 542,484.00	Annuity Rate Actuarial Equiv. 141.529 for Top Heavy 130.389 for 417(e) 131.417 of Accrd ER Ben 141.529 for Cash Bal Conv for PBGC Prem - LS 119.228 for PBGC Prem - Ann 108.215
		OK Cancel	

Employee: Basic Data \ ACCRBENF screen

- o Participant Accrued Benefit result for the benefit formula as of 12/31/2020
 - Factors
 - 4% of average compensation per year up to 25 years
 - Years Accrued: 33 (maximum of 25)
 - Accrual Average Comp: 5,013.00
 - Accrued Benefit Calculation
 - 4% x Accrual Average Comp x Years Accrued (maximum of 25)
 - 0.04 x 25 x 5,013.00= <u>5,013.00</u>

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

- Example 3: Unit Benefit with Service Credit Before Effective Date
 - o In ASC, limiting years to a specific date is called a Fresh Start
 - o Review References at the end of this topic for FAQs on Fresh Start programming
 - Plan Design: \$100 Unit Accrual with 5 years of service before Effective Date per year of participation for maximum 25 years

Plan Specification: General \ Identification \ ID screen

- Plan Specification settings
 - Exclude Service
 - Leave blank
 - Exclude Accrual Service
 - Enter earliest date on which service will be credited
 - Enter 1/1/2016 to provide up to 5 years of service prior to the plan's Effective Date of 1/1/2021

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#8 – Traditional Benefit Formula Coding

- Example 3: Unit Benefit with Service Credit Before Effective Date (Continued)
 - Plan Design: \$100 Unit Accrual with 5 years of service before Effective Date per year of participation for maximum 25 years

PLANSPEC - D17:0018		– 🗆 X
File Edit Search View Options	Window Help	
View Specifications General Compensation Compensation	Type of Accrual 5 - Unit per Formula Starting Date 2 - Plan Year Basis of Year 2 - 1000 Hours Days in First Year 163 Retirement Year 186 Hours Excl. Years < Effective Date No Exclude Years before Age No Percentage Accrual Fr	Iptions Accrual before Apply Maximum Yes Accrual before Apply Minimum Yes Accruad Benefit Minimum Reserves Accrued Benefits at Year End No Tont End Accrual
UNITBENF UNITBENF CARRBENF FORMBENF FORMBENF DEATHBEN DEATHBEN	Percent per Year	Years for Full Accrual 25

Plan Specification: General \ Benefits \ ACCRUAL screen

- o Plan Specification settings
 - Type of Accrual
 - Select 5 Unit per Formula for unit accrual method
 - Years for Full Accrual
 - Enter 25 years for the Full Accrual option
 - Starting Date
 - Select 2 Plan Year because accrual service is permitted to start as early as the first plan year service will be credited

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

- Example 3: Unit Benefit with Service Credit Before Effective Date (Continued)
 - Plan Design: \$100 Unit Accrual with 5 years of service before Effective Date per year of participation for maximum 25 years

PLANSPEC - D17:0018		– 🗆 X
File Edit Search View Options	Window Help	
View Specifications General Compensation LEGALAVG MINBEN DATCHELA DEATHBEN CARBENF C	Unit Retirement Benefits Unit Benefit Pct of Comp Pct of Excess Excess Based On Excess Based On Dollar Amt 100.00 Excess over Unprojected Red. for Pre-SSRA Payment 1 - None OK	Maximum Years Red. Prior to Acc Excl Dt 5 - Fresh Start Maximum Years 25 Starting Date 2 - Plan Year Basis of Year 2 - 1000 Hours Days in First Year 163 Retirement Year 186 Hours 1 Exc. Yrs c Eff Date No Exc. Yrs before Age No Mo Age Cancel Benefit Description

Plan Specification: General \ Benefits \ UNITBENF screen

- o Plan Specification settings
 - Dollar Amount
 - Enter **100.00** for the plan's \$100 per year of service benefit formula
 - Reduce for Years Less than
 - Enter **25** to a maximum 25 years of total accrual service years
 - Reduce Prior to Accrual Exclusion Date
 - Select **5 Fresh Start** to permit service to be credited prior to the plan's Effective Date
 - Other parameters are set to match the ACCRUAL screen

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

- Example 3: Unit Benefit with Service Credit Before Effective Date (Continued)
 - Plan Design: \$100 Unit Accrual with 5 years of service before Effective Date per year of participation for maximum 25 years

PLANSPEC - D17:0018		– 🗆 X
File Edit Search View Options	Window Help	
View Specifications General Compensation Compensation EGALAVG MINBEN MINBEN MINBEN MINBEN MINBEN MINBEN MINAGEN Fording Ford	Maximum Benefits 415 Maximum Benefit Maximum Benefit Maximum Benefit 62 to 65 Maximum Benefit 62 to 65 Reduce for Years Less Than 10 Starting Date Starting Date 4 - BOY Entry ▼ Basis of Year Days in First Year Hours Exc. Yrs < Eff Date	Plan Maximum Benefit Maximum Benefit Maximum Benefit Beduce for Years Less Than 10 Starting Date 2 - Plan Year Basis of Year 2 - 1000 Hours Days in First Year 163 Hours 1 Exc. Yrs < Eff Date No Exc. Yrs before Age No Age 18 Cancel

Plan Specification: General \ Compensation \ MAXBEN screen

- Plan Specification settings
 - Days in First Year
 - Enter **1** to have the system calculate 1 year of 415 participation service as of the plan's Effective Date

Tuesday, August 10, 2021

#8 – Traditional Benefit Formula Coding

- Example 3: Unit Benefit with Service Credit Before Effective Date (Continued)
 - Plan Design: \$100 Unit Accrual with 5 years of service before Effective Date per year of participation for maximum 25 years
 - Participant service results for the benefit formula as of 1/1/2021

1 EMPLOYEE - D17:0018			-	
File Edit Search View Options	Window Help			
View Specifications Basic Data DATE COMP HISTORY HISTORY HISTORY HISTORY Code Find Existing Search	Dates and Status - Adams, John Q Input Birth 08/01/1955 Hire 08/02/1999 Termination Rehire/Trans Spouse Birth	Calculated Entry 01/01/2021 EAN Entry 01/01/2000 Accrual Start 01/01/2016 Vesting Start 01/01/2000 Fully Vested 01/01/2006	Retirement Date NRA Attained 01/01/20 Normal Retirement 01/01/20 Early Retirement 01/01/20	26
Find Existing	Service Hours Hours Hour Rate	Calculated Service Years Accrued 5.00 Total Accrual Years 10.00 Pre-Fresh Start Years of Vesting 21.00 OK Cancel	Participation Status	

Employee: Basic Data \ DATE screen

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#8 – Traditional Benefit Formula Coding

- Example 3: Unit Benefit with Service Credit Before Effective Date (Continued)
 - Plan Design: \$100 Unit Accrual with 5 years of service before Effective Date per year of participation for maximum 25 years

1 EMPLOYEE - D17:0018			– 🗆 X
File Edit Search View Options	Window Help Accrued Benefits - Adams, John Q Accrued Benefits Accrued Benefit Base 500.00 Prior Accrued Benefit Accrued Benefit Begin. of Yr. Accrued Benefit 500.00 BOY 415 Accrued Benefit 2,790.47 Statement/Compliance	Vesting Vested Percent 100.00 Prior Vested Pct 100.00	Early Retirement Eligibility Code 6 Accrued Benefit 442 Disability Disability Benefit
ACCRBENT FASB INSUR SOLEPROP Costs Find Existing Find Existing Find Existing Find Existing Find Existing Find Existing	Statement/Compliance BOY CB Accrued Benefit EOY CB Accrued Benefit Maximum Accrual Current Year 415 Max Current Year 415 Max Annuity Normal Form Type O - Plan Normal Form Certain Period Percent to Survivor	Present Value of Accrued Benefit Actuarial Equiv. 44.890 for Top Heavy 42.845 for 417(e) 67.879.00 of Accrd ER Ben 39.704 PVAB for PBGC Prem 57.524 PVVAB for Lookback PBGC 276,125.0 for PPA 57.524.00	Annuity Rate I23.106 Actuarial Equiv. I14.673 for Top Heavy I14.673 for 417(e) I35.757 of Accrd ER Ben I23.106 for Cash Bal Conv I for PBGC Prem - LS I28.968 for PBGC Prem - Ann I15.047

Employee: Basic Data \ ACCRBENF screen

- Participant Accrued Benefit result for the benefit formula as of 1/1/2021
 - Factors
 - \$100 per year up to 25 years
 - Years Accrued: 5 (maximum of 25)
 - Accrued Benefit Calculation
 - \$100 x Years Accrued (maximum of 25) = <u>500.00</u>

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#8 – Traditional Benefit Formula Coding

D. References

• FAQs

	ASC	Client Support Center	Search /	ASC FAQs
HOME	REQUEST SUPPORT	UPDATES & DOWNLOADS	DOCUMENTS	SYSTEM TRAINING
F	AQs ASC			
4	- Actian/Pervasive			
-	- Daily Val - DV Dire	ect		
-	DC - Compliance			
+	DC - Recordkeepi	ng		
-	 Defined Benefit 			
	FAQ 264: Coding	a tiered formula		
	FAQ 1022: Codin	g an integrated formula w	<u>ith unit accru</u>	al
	FAQ 826: Fresh S	tart - Coding a First Year \	/al with Accru	al Service Prior
	<u>Date</u>			
	FAQ 847: Fresh S	tart - Coding a new formu	ila with a prio	<u>r frozen benefit</u>
	FAQ 496: Fresh S	tart - Coding a wear-away	<u>/ formula</u>	

- DB Reference Manual
- Online Help
 - <F1> on keyboard to access online help for each employee or plan specifications field



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#1 – American Rescue Plan Act of 2021

#2 – One Participant DC Cash Balance Plan Proposal

#3 – ASC-715 Basics in ASC

#4 – Participant Termination/Optional Forms

#5 – DB Pattern Plans Overview

#6 – Extended History

#7 – Average Compensation Overview

#8 – Traditional Benefit Formula Coding

#9 – Participant Reconciliation with Grids and Formulas

Tuesday, August 10, 2021

#9 – Participant Reconciliation with Grids and Formulas

Topic Roadmap

- A. Grids and Formulas Snapshot
- B. 5500 Schedule R Lump-Sum Distribution Counts
- C. 5500 Participant Counts
- D. Reconcile Annuity Distributions
- E. How to Load Sample DB Formula File and Saved Grids to Your ASC System
- F. References

Tuesday, August 10, 2021

#9 – Participant Reconciliation with Grids and Formulas

A. Grids and Formulas Snapshot

- Any participant field viewable on the participant screens can be used with grids. For ASC users not familiar with creating grids to view employee data, it is recommended to review the grid webcast, grid training videos, and other available documentation before working with formulas
 - o See F. References for a listing of available resources
 - Formulas can reference plan specification fields by adding an S: before the Plan Specification field
 - Example: S:PLNYREND will reference the Plan Year End date on the Plan ID screen.
 - If formulas are added to a grid, those calculated results will display as a column in the grid
 - o Grids and formulas can be used to reconcile participant fields
 - Depending on your reconciliation needs, different participant fields and formulas can be used to display the needed information
- This top tip will apply a practical application of grids and formulas to reconcile participant fields

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#9 – Participant Reconciliation with Grids and Formulas

B. 5500 Schedule R – Lump-Sum Distribution Counts

- In general, there are three ways to identify if a participant received a lump-sum distribution in the 12 months prior to the valuation date:
 - If their status code as of the prior valuation date was not P, but as of the current valuation date, it is P
 - P status code is for participants that have been paid out of the plan and no longer have benefits due
 - If there is a value in their Benefits \ SOLEPROP screen \ 1099R fields and their status code is not D, G, or R
 - Status codes D, G, and R are for participants receiving annuity payments
 - o If they have cash balance distributions input on their Costs \ CASHBAL screen
 - CB distributions generally are nonrecurring payments
- Using Grids and Formulas, we can see which participants may have taken a lump-sum distribution during the prior 12 months

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o With the above logic, the ASC DB SchR Lumps grid will count those participants

ASC: Employee window

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#9 – Participant Reconciliation with Grids and Formulas

B. 5500 Schedule R – Lump-Sum Distribution Counts (Continued)

• In the screenshot below, the grid includes these columns:

• P this Yr Not Last

- Participants' preceding plan history record status code is compared to their current status code
- If status this year is P, but prior year status is not P, then 1 is returned
- Not InPay but Dist
 - If a participant has a gross distribution input but status code is not DGR (retiree status codes), then 1 is returned
- o CB Dist
 - If a participant has a CB distribution input, then 1 is returned
- Set View / Grid / Show Totals to Yes\Disallow Edits to show the totals for each column

😰 EMPLOYEE - D17:0015						-	×
File Edit Search View Options	Window Help						
View	📑 [Untitled]						×
Specifications	Employee Name	P this Yr Not Last	Not InPay but Dist	CB Dist			
Find Existing	Employee_83	U	U	U	i		
Search	Employee_84	0	0	0			
Grids	Employee_85	0	0	0			
Clear	Employee_86	0	0	0			
211363.GRX	Employee_87	0	0	0			
211493-2.GRX	Employee_88	0	0	0			
70.5.GRX	Employee_89	0	0	0			
Age Grid.GRX	Employee_9	0	0	0			
ASC DB 5500PartReconDB.GF	Employee_90	0	0	0			
ASC DB CB Acct Bals.GRX ASC DB Exp Benft Pmts.GRX	Employee_91	0	0	0			
ASC DB Exp Bent Pmts.GRX	Employee_92	0	0	0			
CALCS - AILGRX	Employee_93	0	0	0			
Cash Bal Accts.GRX	Employee_94	0	0	0			
Census.GRX	Employee_95	0	0	0			
DB 3 Yr Comp Dynamic.GRX	Employee_96	0	0	0			
DB 3 Yr Comp Dynamic_revised	Employee_97	0	0	0			
DB 3 Yr Comp Formula.GRX	Employee_98	0	0	0			
DB 3 Yr Comp.GRX	Employee_99	1	1	14			
DBComplianceGrid.GRX		12	1	14		 	 _
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	•						

ASC: Employee: View of 'ASC DB SchR Lumps'

• Depending on how you use ASC, select the participant results that you determine are appropriate

Tuesday, August 10, 2021

#9 – Participant Reconciliation with Grids and Formulas

B. 5500 Schedule R – Lump-Sum Distribution Counts (Continued)

• The formula used for the columns

• P this Yr Not Last

 \$IF(S:FMBOYVAL="N";\$IF((HSPARTST[HSDATE=@LastYear]<>"P")AND(PARTSTAT ="P");1;0);\$IF((HSPARTST[HSDATE=@2YrAgo]<>"P")AND(PARTSTAT="P");1;0))

• Not InPay but Dist

- \$IF((DISTGROS>0)AND(\$NOT(\$IN(PARTSTAT;"D";"G";"R")));1;0)
- o CB Dist
 - \$if(CBDIST > 0;1;0)

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#9 – Participant Reconciliation with Grids and Formulas

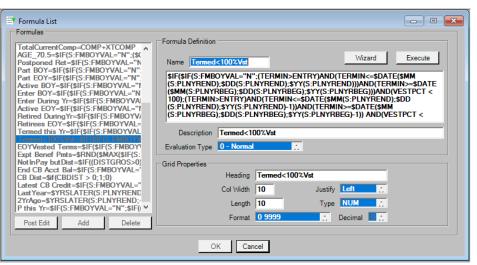
C. 5500 Participant Counts

- 5500s report various participant counts. For Example, line 6h is for the number of participants that terminated during the year that were not fully vested.
- Formulas files can be created using ASC's Utilities > Wizards > Formulas menu

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Top Tip #9 - 2021			

Utilities > Wizards > Formulas menu

 The following formula could be added to a formula file to be used with grids for checking for participants that terminated during the year were not 100% vested.



Utilities > Wizards > Formulas menu > 'Termed<100%Vst' Formula

 Depending on the valuation date (BOY versus EOY), the 'Termed<100%Vst' formula references different plan specification fields for the 12-month period before the valuation date for reporting

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#9 – Participant Reconciliation with Grids and Formulas

C. 5500 Participant Counts (Continued)

- For this presentation, the following generic formulas were used to calculate:
 - o Active BOY, Enter on BOY, Enter During the Year, Active EOY
 - o Retired During Yr, Retirees as of EOY
 - Terminated during the EOY, EOY Vested, Terminated <100% vested

EMPLOYEE - D17:0015 -	- [[Untitled]]													-	
♥ File Edit Searc	h View Optio	ons Window	Help												- 5
Employee Name	Entry Date	Termination	Normal Retire	Primary Status	Active BOY	Enter BOY	Enter During	Active EOY	Retired Duri	Retirees EO	Termed this	EOYVested	Termed<10	Part BOY	Part EOY
Employee 66	09/21/2019		11/26/2032	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_67	10/25/1993		01/02/2021	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_68	01/01/2013		01/01/2033	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_69	10/02/2000		01/16/2022	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_7	09/01/2014		03/15/2038	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_70	06/12/2017		10/04/2028	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_71	02/16/1984	03/01/2013	03/01/2012	R	0	0	0	0	0	1	0	1	0	1	1
Employee_72	12/14/2015	10/12/2016	04/01/2046	Т	0	0	0	0		0	0	0	1	1	1
Employee_73	02/24/2014		08/31/2039	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_74	10/07/2019		10/07/2029	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_75	08/14/2012	07/12/2013	11/01/2036	Т	0	0	0	0	0	0	0	0	1	1	1
Employee_76	07/25/2011		12/09/2037	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_77	05/10/1999	10/15/2010	08/01/2042	Т	0	0	0	0	0	0	0	1	0	1	1
Employee_78	03/01/2016		10/09/2034	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_79	12/14/2015	01/29/2016	01/01/2041	Т	0	0	0	0	0	0	0	0	1	1	1
Employee_8	09/20/2010		06/28/2025	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_80	06/19/2006	01/02/2007	08/01/2050	т	0	0	0	0	0	0	0	1	0	1	1
Employee_81	05/14/2019	12/19/2019	05/14/2039	Т	0	0	0	0	0	0	0	0	1	1	1
Employee_82	01/02/2017		01/01/2037	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_83	01/02/2019		02/26/2043	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_84	01/01/1980	01/01/2001	08/01/2005	R	0	0	0	0	0	1	0	1	0	1	1
Employee_85	03/28/2017		06/22/2044	A	1	0	0	1	0	0	0	0	0	1	1
Employee_86	07/29/2019	01/21/2020	04/17/2046	м	1	0	0	0	0	0	1	0	0	1	1
Employee_87	01/12/2015	02/08/2016	08/01/2056	Т	0	0	0	0	0	0	0	0	1	1	1
Employee 88	05/16/2018	03/29/2019	06/01/2057	Т	0	0	0	0	0	0	0	0	1	1	1
Employee_89	06/03/2019	12/10/2019	03/24/2047	Т	0	0	0	0	0	0	0	0	1	1	1
Employee_9	11/06/2006		08/27/2038	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_90	08/27/2018	01/06/2020	04/22/2047	м	1	0	0	0	0	0	1	1	0	1	1
Employee_91	02/16/2017		05/06/2048	Α	1	0	0	1	0	0	0	0	0	1	1
Employee_92	04/21/2018	02/02/2019	05/01/2048	Т	0	0	0	0	0	0	0	0	1	1	1
Employee_93	01/26/2019	09/24/2020	04/12/2049	м	1	0	0	0	0	0	1	1	0	1	1
Employee_94	01/01/1980	08/01/2003	01/01/2008	R	0	0	0	0	0	1	0	1	0	1	1
Employee_95	09/14/1994	02/01/2011	02/01/2011	R	0	0	0	0	0	1	0	1	0	1	1
Employee 96	12/03/2017	05/04/2018	07/01/2062	T	0	0	0	0	0	0	0	0	1	1	1
Employee_97	01/02/2005	01/26/2008	01/02/2021	T	0	0	0	0	0		0	1	0	1	1
Employee 98	10/25/1983	04/01/2007	11/01/2011	R	0	0	0	0	0		0	1	0	1	1
Employee 00	02/20/2007				0		0				0			0	0
406					216		11	201		43	26	109	75	366	377

• Participants BOY and EOY

ASC: Employee: View > Grid

- At the bottom, when Show Totals Yes/Disallow Edits is enabled, totals in each category are calculated
- Note, for this large of a plan, it takes a few seconds to View / Grid / Copy to Clipboard to process

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#9 – Participant Reconciliation with Grids and Formulas

D. Reconcile Annuity Distributions

- Use Grids to calculate estimated individual annual benefit payments. Calculating estimated total annual benefit payments may help verify trust accounting or 5500 reporting
- The following formula multiplies the Accrued Benefit by how many months the participant was retired in the 12 months prior to the valuation date
 - \$RND(\$MAX(\$IF(S:FMBOYVAL="N";\$MIN(\$CMO(RETIRE;S:PLNYREND);12);\$MIN(\$CMO(RETIRE;S:PLNYRBEG);12));0)*ACCRBENF;0)
- After the formula file is saved, it can be accessible to a grid as a column by pressing the Formulas button.
 - If no formula file has recently been selected, you will be prompted to open a formula file

ile Edit Search View Options	Window Help	
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• Double-click to add the formula to the grid.

EMPLOYEE - D17:0015 File Edit Search View Options	Window Help		×
/iew Specifications Find Existing Search Grids Clear 211363.GRX 211439.2.GRX 70.5.GRX Age Grid GRX Age Grid GRX Age Coll S500Part ReconDE ASC DB 5500Part ReconDE ASC DB Sch Rumps GRX ASC DB Sch Rumps GRX Cash Bal Accts GRX Cash Bal Accts GRX DB 3 Yr Comp Dynamic GR DB 3 Yr Comp GRX	Find Item (EEDB) Find Item (EEDB) Formula Name Description Formula Name Description Selected Items Prompt for Totals Part EOY SHF(SFFRSFMBR Find Item Find Item Part EOY SHF(SFFRSFMBR Find Item Part EOY SHF(SFFRSFMBR Find Item Part EOY SHF(SFFRSFMBR Enter BOY SHF(SFFRSFMBR Enter BOY SHF(SFFRSFMBR Enter BOY SHF(SFFRBR Enter BOY SHF(SFRBR Enter BOY SHF(SFRBOYV End CB Acct Bas SHF(SFRBOYV Done Latest CB Crocid ISF(SFRBOYV Done		
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ASC: Employee: View > Grid > New or Edit

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#9 – Participant Reconciliation with Grids and Formulas

D. Reconcile Annuity Distributions (Continued)

• To filter which employees are included in the Grid, press Select EEs to define the filter

Find Item							
<u>F</u> orm Names	_ i	Item Names	_		Selected Items	Prompt for Totals	
DATE		NAME	^	Select Item	NAME <c></c>		
COMP		SSNUM		Find Item	PARTSTAT		
ADDRESS		MEMO		Edit Item	ACCRBENF		
PROJBENE		PRINCPAL		Item Desc	ANNUITCC		
ACCRBENF FASB		PCTSTOCK FAMILY		-	ANNUITPC @Expt Benef I	Pmts <s></s>	
INSUR		SPOUSE		Formula <u>s</u>			
SOLEPROP		FCDPRIOR LINDESC		Dictionary			
VALPPA		KEYIND		Match EE			
LIABILTY		HIGHCOMP		Select <u>E</u> E			
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CASHBAL	×	ENTHVEST	×	Do <u>n</u> e	nem. Employe	e Name	
Title [Untitled]						<u>C</u> ancel <u>H</u> elp	

ASC: Employee: View > Grid > New or Edit

• For retiree benefit payments, select codes of DGR.

Select Employees	×
Status Codes C All Status Codes C None - Add New Employees Only Image: Only the Following Statuses (A-Z): DGR Status Eligibility Primary Formula Type None Formula Type Image: None	Location Codes All Location Codes Only the Following Code: Only the Checked Codes in List 0001 Active Participants 0002 Terminated Vested Participan 0003 Alternate Payees
	ncel <u>H</u> elp

ASC: Employee: View > Grid > New or Edit > Select EE...

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#9 – Participant Reconciliation with Grids and Formulas

D. Reconcile Annuity Distributions (Continued)

• After the grid is created, enable Show Totals to view the estimated total annuity benefit payments for the last 12 months.

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Sea				New Template	R	1,008.02	G		100	12096.24		
Grid		Disburseme	ent ⊧	_	R	403.36	G		100	4840.32		
	X Clear		Emp	Open	R	400.89	G		50	4810.68		
	211363.GF		Emp	Save	R	199.90	G			2398.80		
	211493-2.0	RX	Emp	Save As	R	1,627.95	G		50	19535.40		
	10.5.GRX		Emp	Edit	R	703.46	G		50	8441.52		
	Age Grid.G		Emp	<u></u> uit	R	1,207.46	0			14489.52		
		00PartReconDE	Emp	Select Employees	R	1,242.41	G			14908.92		
		Acct Bals.GRX	Emp	Find Employee	R	1,689.68	G		100	20276.16		
		p Benft Pmts.GF hR Lumps.GRX	Emp							7770.48		
	CALCS - A		Emp			/Allow Edits	L			19992.36		
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	Census.GR		Emp	Select Detail						16495.20		
		mp Dynamic.GR	Emp	Split	R	348.87	G			4186.44		
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ASC: Employee: View > Grid

• While creating the grid, if totals were enabled for that column the total will show at the bottom of that column

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File E	dit Search View Options	۷	Vindow Help									
View			[Untitled]									×
Spe	cifications	•	Employee Name	Normal Retire	Primary Status	Accrued Benefit	Annuity Type	Annuity CC	Annuity Surv Pct	Expt Benef Pmts		^
	Find Existing	IE	Employee_329	08/01/2007	к	250.00	G			3000.00		
D Sea	/ -		Employee_340	09/01/2016	R	1,008.02	G		100	12096.24		
Grid			Employee_36	05/01/2009	R	403.36	G			4840.32		
	🗙 Clear		Employee_37	01/01/2018	R	400.89	G		50	4810.68		
	211363.GRX		Employee_38	04/01/2015	R	199.90	G		100	2398.80		
	211493-2.GRX		Employee_39	10/01/2007	R	1,627.95	G		50	19535.40		
	70.5.GRX		Employee_40	12/01/2010	R	703.46	G		50	8441.52		
	Age Grid.GRX		Employee_41	12/01/2007	R	1,207.46	0			14489.52		
	ASC DB 5500PartReconDE		Employee_43	02/01/2014	R	1,242.41	G		100	14908.92		
	ASC DB CB Acct Bals.GRX		Employee_47	07/01/2012	R	1,689.68	G		100	20276.16		
	ASC DB Exp Benft Pmts.GF		Employee_54	02/01/2018	R	647.54	0			7770.48		
	ASC DB SchR Lumps.GRX		Employee_6	10/01/2013	R	1,666.03	G		100	19992.36		
	CALCS - AII.GRX		Employee 62	04/01/2015	R	1,021.19	G		100	12254.28		
	Cash Bal Accts.GRX		Employee_71	03/01/2012	R	1,374.60	G		50	16495.20		
	Census.GRX		Employee_84	08/01/2005	R	348.87	G		100	4186.44		
	DB 3 Yr Comp Dynamic.GR DB 3 Yr Comp Formula.GR)		Employee_94	01/01/2008	R	370.25	G		100	4443.00		
	DB 3 Yr Comp Formula.GRV		Employee 95	02/01/2011	R	1,027.70	G		100	12332.40		
	DB 3 Tr Comp.GRX DBComplianceGrid.GRX		Employee 98	11/01/2011	R	1,123.23	G		50	13478.76		
	dynamic grid.GRX		47							545,608.56		~
<	,		ANNUITYP									
1.		1 L										

ASC: Employee: View > Grid

- For this plan, based on the coding of the employee records, it is expected that <u>545,608.56</u> annuity benefits were paid in the prior 12 months from the trust.
- Discrepancies between trust reports and ASC grid results can be reconciled outside of ASC.

Tuesday, August 10, 2021

#9 – Participant Reconciliation with Grids and Formulas

E. How to Load Sample DB Formula File and Saved Grids to Your ASC System

- Navigate to the <u>Client Support Center / DOCUMENTS / ASC System</u> webpage.
- Download ASC DB Advanced Formulas and Grids.zip from the Client Support Center
 - The formulas provided are generic and may need additional logic added to accommodate your plan designs. We welcome and will collect feedback on these formulas and grids for a potential future re-release.
 - Review the results to ensure they are as expected.
- Review the instructions included in the zip file
- Save the AdvancedFormulasDB-2021.FME and the included .GRX files to your ASC \ USER directory
- Open a DB Plan in ASC. After opening a grid that uses a formula, the following menu will open

Formula Files	×
Formula File	
Name	٩
Directory	
OK Cancel <u>H</u> elp	

ASC: Employee: View > Grid > Open

• Select the AdvancedFormulasDB-2021.FME file for use with the ASC provided grids by selecting the spyglass and navigating to that file.

Formula Files						
Formula F	ile					
Name C:\AscSystem\ASC\USER\StandardFormulasDB-2021.FM						
	ReadOnly C ReadWrite C CreateNew	Δ				
Directory C:\AscSystem\ASC\USER\						
	OK Cancel <u>H</u> elp					

ASC: Employee: View > Grid > Open

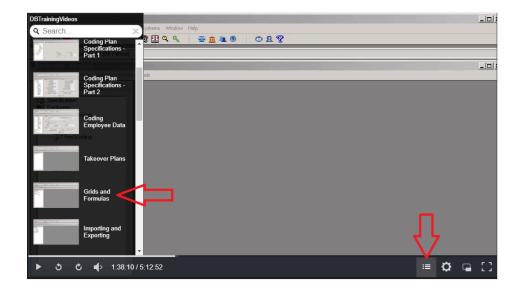
• After pressing OK, the grid will be displayed using the formulas.

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#9 – Participant Reconciliation with Grids and Formulas

F. References

- Client Support Center
 - System Training > Web Seminars > General System
 - Grids & Formulas webcast
 - System Training > Web Seminars > Defined Benefit
 - DB Top Tips 2020
 - DB Top 10 Tips 2017 webcast, Top Tip #3 Using Grids and Formulas
 - System Training > Web Seminars > General System
 - Grids & Formulas webcast
 - o System Training > Training Video Series > Defined Benefit video
 - Grids and Formulas segment
 - Click on the menu button on the bottom right to select the Grids and Formulas segment as indicated with the red arrows below.



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#9 – Participant Reconciliation with Grids and Formulas

F. References (Continued)

- Client Support Center (Continued)
 - o FAQs



- Grid Manual
 - Formula Expressions
 - o Using Formula Expressions with the Grid
 - o Formula Names



Tuesday, August 10, 2021

#1 – American Rescue Plan Act of 2021
#2 – One Participant DC Cash Balance Plan Proposal
#3 – ASC-715 Basics in ASC
#4 – Participant Termination/Optional Forms
#5 – DB Pattern Plans Overview
#6 – Extended History
#7 – Average Compensation Overview
#8 – Traditional Benefit Formula Coding

#9 – Participant Reconciliation with Grids and Formulas

Thank you for joining us!



Cumulative List of ASC DB Top Tips Webcast Topics

Tip #	2021	2020	2018	2017	2016
1	American Rescue Plan Act of 2021	Changing Valuation Dates	Starting Dates for Benefit and Valuation Calculations	Housekeeping	Coding and Valuing Postponed Retirees UPDATED 2020
2	One Participant DC Cash Balance Plan Proposal	Coding Postponed Retirees	Status Codes Overview	FASB / ASC	Using the new SOA Mortality Tables and Generational Projection Scales
3	ASC-715 Basics in ASC	CARES Act for DB Plans	Application of IRC 415 Limits and Annuity Substitution	Using Grids and Formulas	Cash Balance Assumptions Coding Tips
4	Participant Termination/Optional Forms	Using Force All Benefits	New PPA Report Enhancements	Combined DC/DB Participant Statements	Discounted Receivable Contributions for EOY Valuations
5	DB Pattern Plans Overview	Exporting Plan Specifications with ASCRIPT	Compliance Testing for BOY DB and EOY DC Plans	Schedule SB Attachments	Employee Statements
6	Extended History	Importing Plan Specs from DGEM Documents	Takeover Plans	New PPA Report Options	PBGC Premium Report Additions
7	Average Compensation Overview	At-risk Coding for 1st Year Cash Balance Plans	Checking Individual Calculations	Quarterly Contribution Reports	Using Reporter to Customize an ASOP Disclosure
8	Traditional Benefit Formula Coding	Plan Term/Optional Forms Enhancements for Cash Balance Plans	SB Attachment Reporting	IRC 401(a)(4) Component Plan Testing	Optional Forms Calculation of 415 Lump Sums
9	Participant Reconciliation with Grids and Formulas	Interest Rate Basics for Cash Balance Plans	Short Plan Year Programming and Reporting	DB/DC Combined Plan Reporting	Potpourri I
10 larial Syst	NA ems Corporation	ASC Defined Benefit Learning Resources	Importing Tables in Table Maintenance	Short Plan Year Programming and Reporting	Potpourri II

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Cumulative List of ASC DB Top Tips Webcast Topics

Тір) #	2015	2014	2013
1	L	New Cash Balance Formula Options	Exporting and Importing Portable Copies	Coding tiered formulas
2	2	Allocation of DB Contribution on DC/DB Combo Report	Status codes overview UPDATED 2018	Coding the ANCILELG screen
3	3	401(a)(4) Rate Banding	Takeover Plans – UPDATED 2018	Checking Individual calculations UPDATED 2018
4	ł	PBGC Report for 2014 and Beyond	Plan Termination / Optional Forms	Employee statements UPDATED 2016
5	5	Present Value and Benefit Comparison Reports	Data and Plan Specs Checking	Average compensation UPDATED 2021
6	5	SB Information Report Additions	Using Grids for Checking	Application of IRC 415 limits UPDATED 2018
7	7	PPA Cushion Calculations	Quarterly Interest Program UPDATED 2017	Annuity substitution UPDATED 2018
8	3	Coding Postponed Retirees UPDATED 2020	PBGC Changes Preview	Status codes overview UPDATED 2018
9)	New Omit Pre-Entry Compensation Calculations	HATFA Updates	DC/DB combo plan report
1 (ASC - Actuaria	-	Weekly Patches and Monthly Segment Rates stems Corporation	NA	Funded status report