





Example of a Challenge

2 Owners		
Hardt	45	\$ 270,000
Hardt	45	\$ 183,000
Subtotals		\$ 453,000
5 Eligible	Employees	(>1 year)
5 Eligible Gren	Employees 46	(>1 year) \$ 45,500
Gren	46	\$ 45,500
Gren Strom	46 56	\$ 45,500 \$ 31,605



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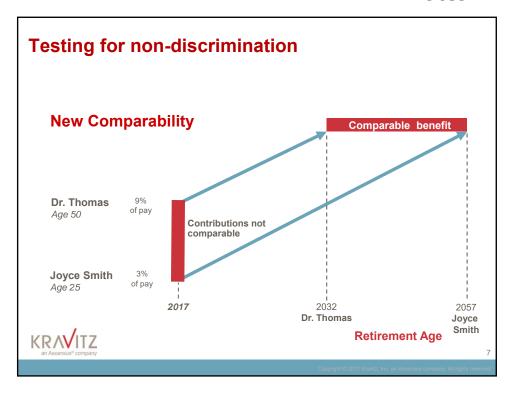
Better

Hardt	45	\$ 270,000
Hardt	45	\$ 183,000
Subtotals		\$ 453,000
5 Eligible	Employees	(>1 year)
Gren	46	\$ 45,500
Strom	56	\$ 31,605
Rivera	30	\$ 15,914
Anderson	(32	\$ 12,000
I	27	\$11,000

2 Owners







Non-Discrimination Satisfied? Non-discrimination is primarily satisfied with the profit sharing contribution. Cash Annual Name 401(k) Sharing Balance Age Salary \$ 270,000 \$ 24,000 \$ 36,000 James Marshall 61 \$0 to \$254,000 Tammy Marshall \$65,000 \$24,000 \$ 9,750 \$ 57,000 Subtotals \$ 335,000 \$ 48,000 \$ 45,750 \$ 311,000 \$ 51,000 \$ 700 41 \$ 3.825 Brandon Byrd Jessica Jensen \$41,000 \$ 3,075 \$ 700 Ryan Osler \$ 34,000 \$ 2,550 \$ 700 Jimmy Bond \$21,000 \$ 1,575 \$ 700 KR/VITZ



Profit Sharing Range?

5%-7.5% (Gateway contribution)

		Annual		Profit	Cash
Name	Age	Salary	401(k)	Sharing	Balance
2 Owners					
James Marshall	61	\$ 270,000	\$ 24,000	\$ 36,000	\$0 to \$254,000
Tammy Marshall	56	\$ 65,000	\$ 24,000	\$ 9,750	\$0 to \$57,000
Subtotals		\$ 335,000	\$ 48,000	\$ 45,750	\$ 311,000
4 Staff				7.5% of pay	,
Brandon Byrd	41	\$ 51,000		\$ 3,825	\$ 700
Jessica Jensen	34	\$ 41,000		\$ 3,075	\$ 700
Ryan Osler	27	\$ 34,000		\$ 2,550	\$ 700
Jimmy Bond	44	\$ 21,000		\$ 1,575	\$ 700



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Methods to Manage Staff Costs

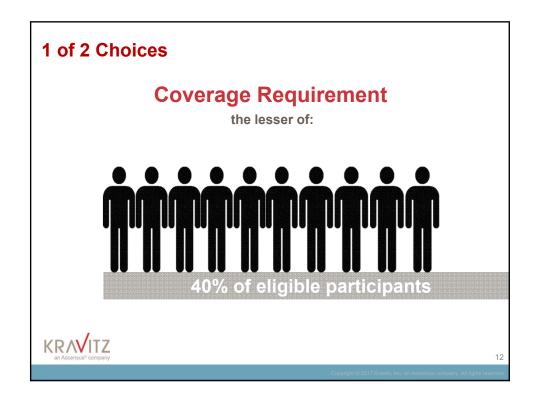


- ✓ Lower amounts to certain HCEs
- ✓ Consider a higher amount for a certain job classification to avoid a higher amount for all NHCEs?
- ✓ Consider a 410(b) minimum coverage carve-out design:
 - · Can consider only covering 70% of the NHCEs
 - Even less if exclude some of the HCEs
 - Example: a separate plan for Associates at a law firm
- ✓ Or consider the 401(a)(26) minimum participation carve-out to cover 40%/50 of the eligible employees...

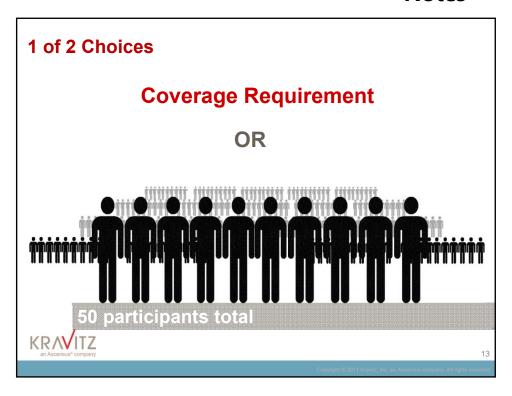


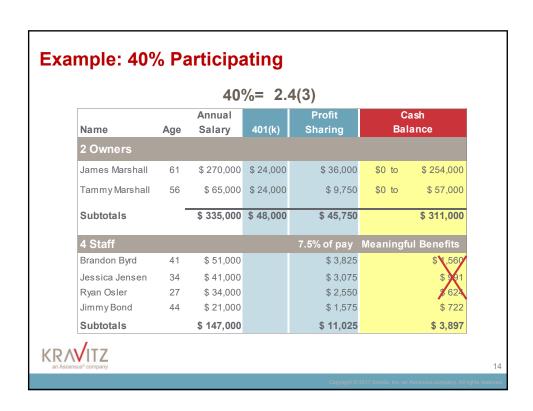














Case Study: 50+ Owners

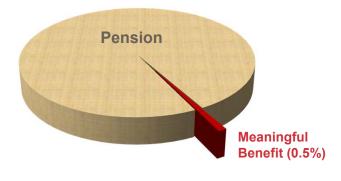
		Profit	Cash	Total
Compensation	401(k)	Sharing	Balance	Contribution
53 Shareholders			(average)	
\$ 270,000	\$ 24,000	\$ 36,000	\$ 55,000	\$ 115,000
68 Shareholders				
\$ 270,000	\$ 24,000	\$ 36,000	\$ 0	\$ 60,000
		6% of pay		
240 Employees				
varied		\$ 720,000	\$ 0	\$ 720,000



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Considered "Meaningful"?

- ✓ To participate means to receive a "Meaningful benefit"
- ✓ Meaningful benefit is defined as "0.5% of pay, paid as a lifetime annuity, at retirement age"





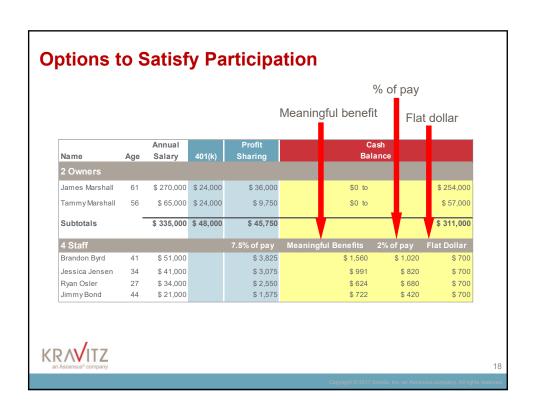


Example

		Annual		Profit	Cash	
Name	Age	Salary	401(k)	Sharing	Balance	
2 Owners						
James Marshall	61	\$ 270,000	\$ 24,000	\$ 36,000	\$0 to \$254,00	
Tammy Marshall	56	\$ 65,000	\$ 24,000	\$ 9,750	\$0 to \$57,00	
Subtotals		\$ 335,000	\$ 48,000	\$ 45,750	\$ 311,00	
4 Staff				7.5% of pay	Meaningful Benefit	
Brandon Byrd	41	\$ 51,000		\$ 3,825	\$ 1,56	
Jessica Jensen	34	\$ 41,000		\$ 3,075	\$ 99	
Ryan Osler	27	\$ 34,000		\$ 2,550	\$ 62	
Jimmy Bond	44	\$ 21,000		\$ 1,575	\$ 72	
Subtotals		\$ 147,000		\$ 11,025	\$ 3,89	

- ✓ Each participant receives their meaningful benefit
- ✓ Age and compensation drives cost
- ✓ Can consider covering just minimum of 40%
- ✓ Consider buffer to avoid annual corrective amendments





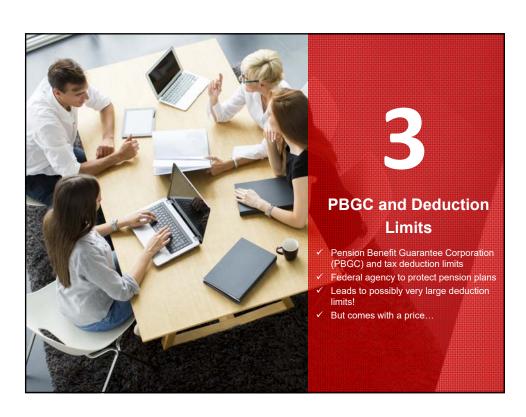


What Option to Use?

- ✓ Actual meaningful benefits?
 - Pros: The actual meaningful benefit
 - Cons: Gets more expensive the older the participant
- ✓ Percent of pay?
 - Pros: Gives everyone similar benefits based on pay like profit sharing contributions
 - Cons: Can get expensive for a high paid group
- ✓ Flat dollar amount?
 - Pros: Manages overall costs
 - Cons: Benefit as % of pay varies









Covered by PBGC



Annual Premiums:

- √ 2017: \$69/participant
- ✓ 2018: \$74/participant

Variable Premium:

- ✓ 2017: \$34 per \$1,000 that liabilities exceed assets
 - \$517 cap per participant
- ✓ 2018: \$38*per \$1,000 that liabilities exceed assets
 - \$517* cap per participant * Actual rates subject to indexing

Plans Exempt from PBGC:

- ✓ Owner-only plans
- Professional service firms with 25 or fewer active participants



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Larger Tax Deductions!



PBGC Plans:

- ✓ NO overall deduction limit for combined CB/DC plans (Pre-PPA/"the old days" – limited to 25% of eligible pay)
- ✓ Can deduct any underfunding plus 50% Cushion Amount too!

Section 810(b) of PPA: "25% DC/DB deduction limit disregarded for purposes of applying 404(a)(7) for PBGC-covered plans.





Example of Cushion Amount

Funding Target \$200,000
 50% of Funding Target + \$100,000

3. Target Normal Cost <u>+ \$200,000</u>

4. Assets - \$200,000

Deduction Limit Total = \$300,000 (1+2+3-4)

Allows for increased deductions in a good year – prefund next year!



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What About Those Pesky Exceptions?

EXEMPTIONS

Professional service firms with 25 or fewer active participants

PROBLEM

May not be able to contribute the maximum to both plans

OPTIONS:

- Maximize CB but limit profit sharing to 6%, or
- Limit the total of both plans to 31%

Name	Age	Annual Salary	401(k)	Profit Sharing	% of pay	Cash Balance
Doctor	61	\$ 270,000	\$ 24,000	\$ 15,900	6%	\$0 to \$254,000





Who are "Professionals Service Employers"?

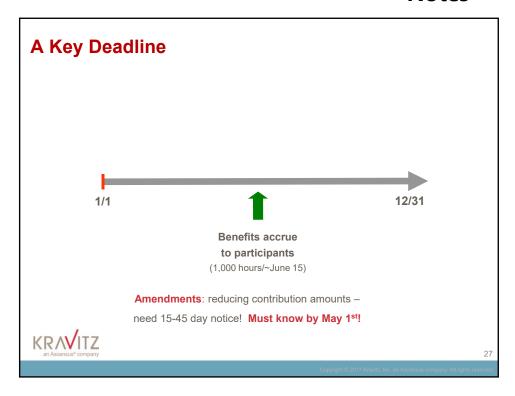


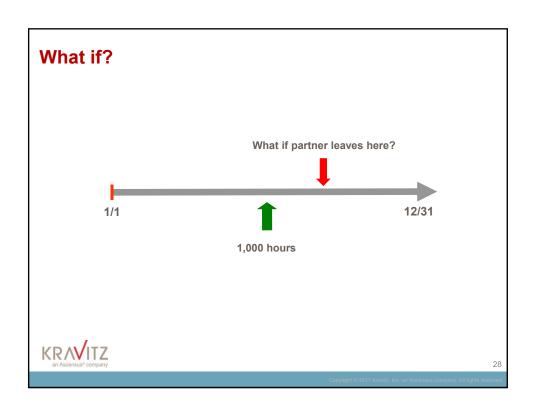
- Physicians
- Dentists
- Chiropractors
 - Osteopaths
- Optometrists
- Other licensed practitioners of the healing arts
- Attorneys at law
- Public accountants
- Public engineers
- Architects and draftsmen
- Actuaries
- Psychologists
- Social or physical scientists
- Performing artists

(see CB Coach website)

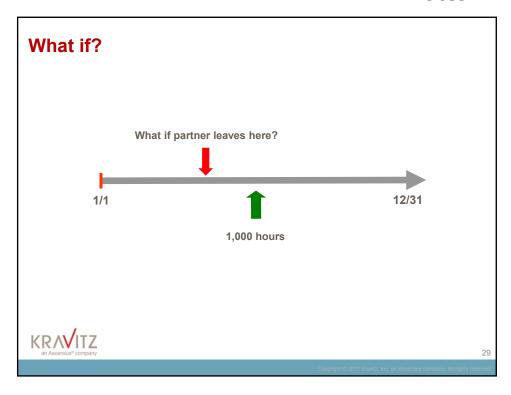


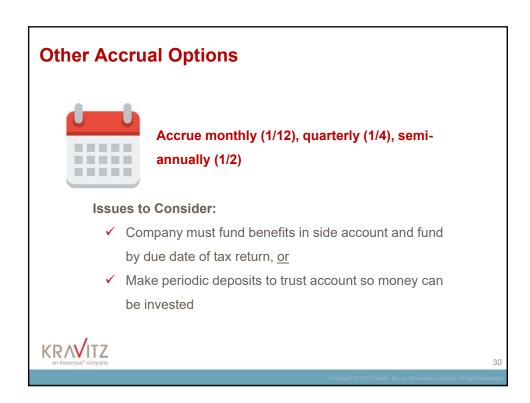












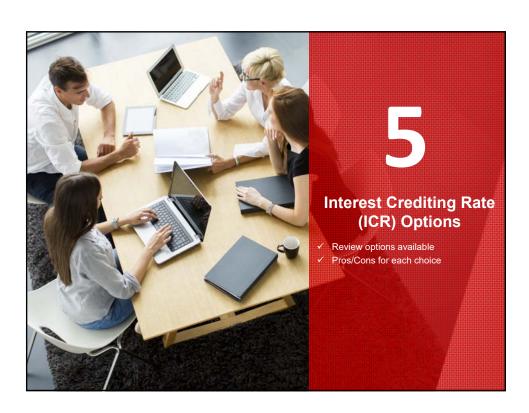


Other Issues

- Options on how we allocate costs to partners?
- Options to handle potential shortfalls or underfunding?









"Cash Balance 1.0"

Cash Balance ICR options-<u>prior</u> to 2010 IRS Regulations:

- ✓ ICR cannot exceed "Market Rate of Return"
- ✓ IRS did not clearly define "Market Rate"
- ✓ Plan sponsors relied on safe harbor rates





"Cash Balance 1.0"

Safe Harbor Rates

- ✓ Yields on 3-month to 30-year Treasury bills/bonds
- ✓ Rate on long-term investment grade corp. bonds
- ✓ Latest Rates for September 2017:
 - 3-month T-bills: 1.03%
 - 30-Year Treasuries: 2.87%
 - Composite Corporate Bonds: 3.78% (Aug)







Cash Balance 2.0 - New ICR Options

2010 and 2014 IRS Regulations Changed the Game!

- ✓ Actual Rate of Return
- ✓ Fixed Rates
- ✓ Equity Based Rates
- ✓ Combined Rates





Option 1: Actual Rate of Return

ICR = Actual rate of return on plan assets

Requirement: assets "diversified so as to minimize the volatility of returns."

Acceptable: mix of bonds and equities

Unacceptable: exclusively in a

sector fund







Option 1: Actual Rate of Return

Advantage

Minimizes most of the underfunding and overfunding issues

Disadvantages

Volatile returns will have **significant** impact

Preservation of Capital Rule





Option 1: Actual Rate of Return

Preservation of Capital Rule

Participant payout can never be LESS than the sum of employer contributions







Option 1: Actual Rate of Return

Preservation of Capital Example:

- ↑ Employer contributes \$1,000 for three years
- ▶ Negative return reduces participant account from \$3,000 to \$2,800

Participant receives the greater of:

- (a) Account Balance or
- (b) Sum of Employer Contributions

Payout to participant = \$3,000





An Unexpected Surprise

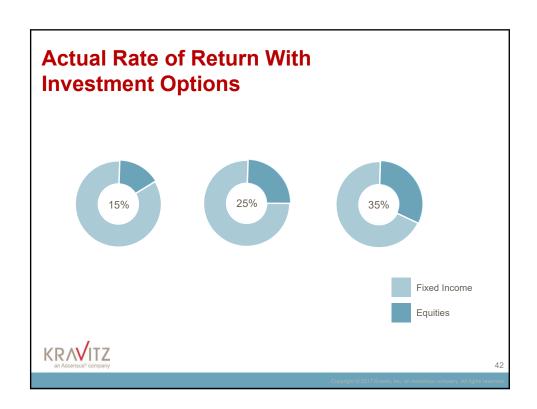


KRAVITZ an Ascensus* company



Actual Rate of Return With a Twist Biggest change in the September 2014 Cash Balance Regulations: IRS now allows for different investment strategies for various groups of participants within one Cash Balance plan.







Actual Rate of Return With Investment Options

Three Rules:

- 1. Diversification
- 2. Employer securities cannot be > 10%
- 3. Employer choice, not participant choice

Note: participant direction and Target Date Funds in Cash Balance plans is still 'under review' by the IRS.



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Case Study Law Cash ICR 3 Investment Firm 50 Partners Description of the company of the comp



Option 2: Fixed Rates

A stand-alone fixed rate of up to 6% per annum

6%

Many smaller plans (less than 50 active participants) using 4% to keep contributions and benefits predictable and cost-effective



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Other Options

Option 3 - Equity Based Rates

- ✓ **Acceptable**: fund tracking the S&P 500
- ✓ Acceptable: fund tracking a broad-based "small cap" index
- Assets do not need to be invested in actual fund!

Option 4 - Combined Rates

Example: the greater of

 (a) interest rate on long term investment grade corporate bonds or (b) 5%





New Options Create New Issues

- 1. Compliance Testing
 - ✓ Meaningful Benefits Test
 - ✓ Non-Discrimination Test
- 2. Lump Sum Payments

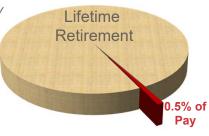




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Meaningful Benefits Test

- ✓ At least 40% of eligible employees or 50 total employees
- ✓ Meaningful Benefit is an annual benefit at retirement of at least 0.5% of pay
 - Based on age & pay
 - ICR impacts the 0.5% of pay calculation







Example: Meaningful Benefits Test

Example: 30 year old earning \$40,000 per year

Interest Crediting Rate	Meaning Benefit
9.5%	\$71
4.5%	\$528
1.5%	\$1,951
0.0%	\$3,880

Cost to provide "meaningful benefits" can increase significantly as the ICR decreases



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Non-Discrimination Testing

Comparison: 4.5% vs. 10.0% ICR

				4.5% ICR	10% ICR
Name	Age	Comp	Cash Balance	Profit Sharing	Profit Sharing
Owner 1	65	\$ 270,000	\$200,000	\$36,000	\$36,000
Owner 2	45	\$ 270,000	\$75,000	\$36,000	\$36,000
				7.5% of Pay	11% of Pay
Employee 1	50	\$ 85,000		6,400	9,300
Employee 2	40	\$ 60,000		4,500	6,600
Employee 3	30	\$ 50,000		3,700	5,500
Employee 4	25	\$ 40,000		3,000	4,400
Totals				\$19,600	\$27,800





Compliance Testing

- ♣ As the ICR decreases:
 - ↑ Meaningful Benefits costs increase
- ♠ As the ICR increases:
 - ↑ Employer contributions needed to pass Non Discrimination Testing increase



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Volatility Impacts Testing



Caution: Volatility will have a significant impact on your Compliance Testing!



Impact on Lump Sum Payments

IRS limit on lump sum payouts:

- ✓ Greater of ICR or 5.5% interest
- ✓ Prior to new regulations: 5.5%
- ✓ New Regulations could result in ICR > 5.5%

As ICR increases, maximum lump sum payouts decrease:

✓ Ultimate lump-sum can be less than what is in the account

Caution: not paying entire account balance as a lump sum is a major problem!



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Example: Lump Sum Payments

Example: 50 year old participant

✓ 5.5% ICR

- Max lump sum is \$1.3M
- Account = \$1.3M OK

√ 12.5% ICR

- Max lump sum is \$388K
- Account = \$1.3M ⊗!!!







Possible Solutions

Solutions:

- Only pay out lump sums when ICR is low
- 2. Select the annuity payout option
- 3. Ceiling on the ICR





Conclusions

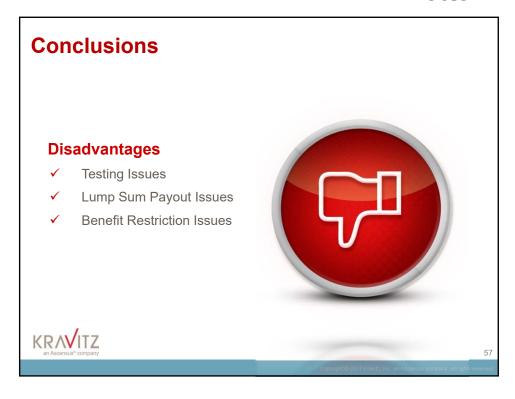
Advantages

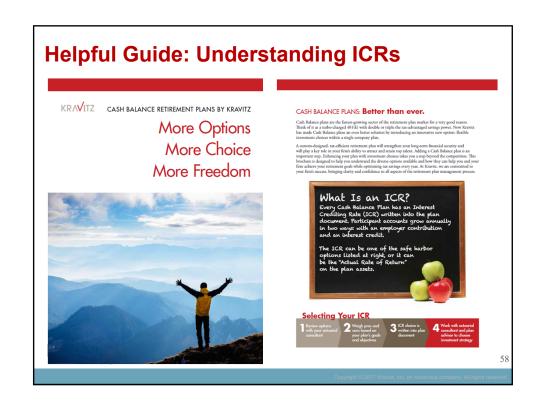
- ✓ Actual Rate of Return may eliminate most overfunding and underfunding issues
- ✓ More ICR flexibility
- ✓ IRS support



























Cash Balance 2017 Predictions



- 1. Continued strong CB growth driven by tax climate, economy and awareness
- 2. Actual Rate of Return continues to grow more popular for larger plans
- 3. More frequent valuations; e.g. semi-annual, quarterly or even daily!
- 4. Larger sponsors opt for 'investment choice' Cash Balance plans
- 5. CB continues to be a "must-have" for top medical/legal groups
- 6. CB assets grow past \$1.2 Trillion by 2020
- 7. More investment products and income options will go to market





Review Existing Plans

- ✓ Cash Balance Plans are maturing
- ✓ Opportunities to win existing plans
- ✓ Consider the following design and administration issues:
 - 1. Are owners' benefits at the maximum?
 - 2. Cost of staff increasing?
 - 3. Are plan admin costs reasonable?
 - 4. Converting from a traditional DB plan?
 - 5. Using a different ICR, like Actual Rate of Return?
 - 6. Is the client happy with quality and timeliness of actuarial services?
 - 7. Annual cash flow/contributions smooth?
 - Satisfied with plan sponsor/participant websites?





Questions to Ask Your Actuary?

10 Questions to Ask Your Actuary



The success of a Cash Balance Plan depends on creative plan design along ith effective, accurate and timely plan administration. These 10 questions will help you do your due diligence before partnering with a pension actuary:











Contact Information

New Plan inquiries – by Time Zone/States



Ken Guidroz, MBA
Pacific/Mountain and Texas
(818) 379-6165
kguidroz@kravitzinc.com



Steve Stone Central / Mid-West States (630) 696-6200 sstone@kravitzinc.com



Carlos Tariche
Eastern / Northeast Coast
(212) 201-4120
ctariche@kravitzinc.com



Shannon Hayes
Eastern / Southeast Coast
(404) 670-1172
shayes@kravitzinc.com



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Contact Information



Kevin Palm - Nationwide Existing Plan Opportunities (818) 379-6168 kpalm@kravitzinc.com





