

## § 1.401(a)(4)-8

## 26 CFR Ch. I (4-1-05 Edition)

Employee N has an unadjusted normal accrual rate of 1.7 percent, average annual compensation of \$106,000, and an employer-provided accrual of \$1,802 (1.7 percent×\$106,000). The covered compensation of both Employees M and N is \$25,000, and social security retirement age for both employees is 65. Neither employee has testing service of more than 35 years and neither has ever participated in another plan.

(b) Because Employee M's average annual compensation does not exceed covered compensation, Employee M's A rate is 2.96 percent (2.0×1.48 percent), and Employee M's B rate is 2.23 percent (1.48 percent+0.75 percent). Thus, Employee M's adjusted accrual rate is 2.23 percent, the lesser of the A rate and the B rate.

(c) Because Employee N's average annual compensation exceeds covered compensation, Employee N's C rate is 1.93 percent ( $\$1,802/(\$106,000 - (0.5 \times \$25,000))$ ), and Employee N's D rate is 1.88 percent ( $(\$1,802 + (0.75 \text{ percent} \times \$25,000))/\$106,000$ ). Thus, Employee N's adjusted accrual rate is 1.88 percent, the lesser of the C rate and the D rate.

(d) *Rules of general application*—(1) *Eligible plans*. The rules in this section may be used only for those plans to which the permitted disparity rules of section 401(l) are available. See § 1.401(l)-1(a)(3).

(2) *Exceptions from consistency requirements*. A plan does not fail to satisfy the consistency requirements of § 1.401(a)(4)-2(c)(2)(vi) or § 1.401(a)(4)-3(d)(2)(i) merely because the plan does not impute disparity for some employees to the extent required to comply with paragraph (d)(3) of this section, or because the plan does not impute disparity for any employees (including self-employed individuals within the meaning of section 401(c)(1)) who are not covered by any of the taxes under section 3111(a), section 3221, or section 1401.

(3) *Overall permitted disparity*. The annual overall permitted disparity limits of § 1.401(l)-5(b) apply to the employer-provided contributions and benefits for an employee under all plans taken into account under § 1.401(l)-5(a)(3). Thus, if an employee who benefits under the plan for the current plan year also benefits under a section 401(l) plan for the plan year ending with or within the current plan year, permitted disparity may not be imputed for that employee for the plan year. See § 1.401(l)-5(b)(9), *Example 4*. Similarly, if an employee who benefits under the plan for the

current plan year also benefits under another plan of the employer for the plan year ending with or within the current plan year, disparity may be imputed for that employee under only one of the plans.

[T.D. 8485, 58 FR 46804, Sept. 3, 1993]

### § 1.401(a)(4)-8 Cross-testing.

(a) *Introduction*. This section provides rules for testing defined benefit plans on the basis of equivalent employer-provided contributions and defined contribution plans on the basis of equivalent employer-provided benefits under § 1.401(a)(4)-1(b)(2). Paragraphs (b)(1) and (c)(1) of this section provide general tests for nondiscrimination based on individual equivalent accrual or allocation rates determined under paragraphs (b)(2) and (c)(2) of this section, respectively. Paragraphs (b)(3), (c)(3), and (d) of this section provide additional safe-harbor testing methods for target benefit plans, cash balance plans, and defined benefit plans that are part of floor-offset arrangements, respectively, that generally may be satisfied on a design basis.

(b) *Nondiscrimination in amount of benefits provided under a defined contribution plan*—(1) *General rule and gateway*—

(i) *General rule*. Equivalent benefits under a defined contribution plan (other than an ESOP) are nondiscriminatory in amount for a plan year if—

(A) The plan would satisfy § 1.401(a)(4)-2(c)(1) for the plan year if an equivalent accrual rate, as determined under paragraph (b)(2) of this section, were substituted for each employee's allocation rate in the determination of rate groups; and

(B) For plan years beginning on or after January 1, 2002, the plan satisfies one of the following conditions—

(1) The plan has broadly available allocation rates (within the meaning of paragraph (b)(1)(iii) of this section) for the plan year;

(2) The plan has age-based allocation rates that are based on either a gradual age or service schedule (within the meaning of paragraph (b)(1)(iv) of this section) or a uniform target benefit allocation (within the meaning of paragraph (b)(1)(v) of this section) for the plan year; or

(3) The plan satisfies the minimum allocation gateway of paragraph (b)(1)(vi) of this section for the plan year.

(ii) *Allocations after testing age.* A plan does not fail to satisfy paragraph (b)(1)(i)(A) of this section merely because allocations are made at the same rate for employees who are older than their testing age (determined without regard to the current-age rule in paragraph (4) of the definition of *testing age* in § 1.401(a)(4)-12) as they are made for employees who are at that age.

(iii) *Broadly available allocation rates—(A) In general.* A plan has broadly available allocation rates for the plan year if each allocation rate under the plan is currently available during the plan year (within the meaning of § 1.401(a)(4)-4(b)(2)), to a group of employees that satisfies section 410(b) (without regard to the average benefit percentage test of § 1.410(b)-5). For this purpose, if two allocation rates could be permissively aggregated under § 1.401(a)(4)-4(d)(4), assuming the allocation rates were treated as benefits, rights or features, they may be aggregated and treated as a single allocation rate. In addition, the disregard of age and service conditions described in § 1.401(a)(4)-4(b)(2)(ii)(A) does not apply for purposes of this paragraph (b)(1)(iii)(A).

(B) *Certain transition allocations.* In determining whether a plan has broadly available allocation rates for the plan year within the meaning of paragraph (b)(1)(iii)(A) of this section, an employee's allocation may be disregarded to the extent that the allocation is a transition allocation for the plan year. In order for an allocation to be a transition allocation, the allocation must comply with the requirements of paragraph (b)(1)(iii)(C) of this section and must be either—

(1) A defined benefit replacement allocation within the meaning of paragraph (b)(1)(iii)(D) of this section; or

(2) A pre-existing replacement allocation or pre-existing merger and acquisition allocation, within the meaning of paragraph (b)(1)(iii)(E) of this section.

(C) *Plan provisions relating to transition allocations—(1) In general.* Plan provisions providing for transition alloca-

tions for the plan year must specify both the group of employees who are eligible for the transition allocations and the amount of the transition allocations.

(2) *Limited plan amendments.* Allocations are not transition allocations within the meaning of paragraph (b)(1)(iii)(B) of this section for the plan year if the plan provisions relating to the allocations are amended after the date those plan provisions are both adopted and effective. The preceding sentence in this paragraph (b)(1)(iii)(C)(2) does not apply to a plan amendment that reduces transition allocations to HCEs, makes de minimis changes in the calculation of the transition allocations (such as a change in the definition of compensation to include section 132(f) elective reductions), or adds or removes a provision permitted under paragraph (b)(1)(iii)(C)(3) of this section.

(3) *Certain permitted plan provisions.* An allocation does not fail to be a transition allocation within the meaning of paragraph (b)(1)(iii)(B) of this section merely because the plan provides that each employee who is eligible for a transition allocation receives the greater of such allocation and the allocation for which the employee would otherwise be eligible under the plan. In a plan that contains such a provision, for purposes of determining whether the plan has broadly available allocation rates within the meaning of paragraph (b)(1)(iii)(A) of this section, the allocation for which an employee would otherwise be eligible is considered currently available to the employee, even if the employee's transition allocation is greater.

(D) *Defined benefit replacement allocation.* An allocation is a defined benefit replacement allocation for the plan year if it is provided in accordance with guidance prescribed by the Commissioner published in the Internal Revenue Bulletin (see § 601.601(d)(2)(ii)(b) of this chapter) and satisfies the following conditions—

(1) The allocations are provided to a group of employees who formerly benefitted under an established nondiscriminatory defined benefit plan of the employer or of a prior employer that provided age-based equivalent allocation rates;

(2) The allocations for each employee in the group were reasonably calculated, in a consistent manner, to replace the retirement benefits that the employee would have been provided under the defined benefit plan if the employee had continued to benefit under the defined benefit plan;

(3) Except as provided in paragraph (b)(1)(iii)(C) of this section, no employee who receives the allocation receives any other allocations under the plan for the plan year; and

(4) The composition of the group of employees who receive the allocations is nondiscriminatory.

(E) *Pre-existing transition allocations—*  
(1) *Pre-existing replacement allocations.* An allocation is a pre-existing replacement allocation for the plan year if the allocation satisfies the following conditions—

(i) The allocations are provided pursuant to a plan provision adopted before June 29, 2001;

(ii) The allocations are provided to employees who formerly benefitted under a defined benefit plan of the employer; and

(iii) The allocations for each employee in the group are reasonably calculated, in a consistent manner, to replace some or all of the retirement benefits that the employee would have received under the defined benefit plan and any other plan or arrangement of the employer if the employee had continued to benefit under such defined benefit plan and such other plan or arrangement.

(2) *Pre-existing merger and acquisition allocations.* An allocation is a pre-existing merger and acquisition allocation for the plan year if the allocation satisfies the following conditions—

(i) The allocations are provided solely to employees of a trade or business that has been acquired by the employer in a stock or asset acquisition, merger, or other similar transaction occurring prior to August 28, 2001, involving a

change in the employer of the employees of the trade or business;

(ii) The allocations are provided only to employees who were employed by the acquired trade or business before a specified date that is no later than two years after the transaction (or January 1, 2002, if earlier);

(iii) The allocations are provided pursuant to a plan provision adopted no later than the specified date; and

(iv) The allocations for each employee in the group are reasonably calculated, in a consistent manner, to replace some or all of the retirement benefits that the employee would have received under any plan of the employer if the new employer had continued to provide the retirement benefits that the prior employer was providing for employees of the trade or business.

(F) *Successor employers.* An employer that accepts a transfer of assets (within the meaning of section 414(l)) from the plan of a prior employer may continue to treat any transition allocations provided under that plan as transition allocations under paragraph (b)(1)(iii)(B) of this section, provided that the successor employer continues to satisfy the applicable requirements set forth in paragraphs (b)(1)(iii)(C) through (E) of this section for the plan year.

(iv) *Gradual age or service schedule—*  
(A) *In general.* A plan has a gradual age or service schedule for the plan year if the allocation formula for all employees under the plan provides for a single schedule of allocation rates under which—

(1) The schedule defines a series of bands based solely on age, years of service, or the number of points representing the sum of age and years of service (age and service points), under which the same allocation rate applies to all employees whose age, years of service, or age and service points are within each band; and

(2) The allocation rates under the schedule increase smoothly at regular intervals, within the meaning of paragraphs (b)(1)(iv)(B) and (C) of this section.

(B) *Smoothly increasing schedule of allocation rates.* A schedule of allocation rates increases smoothly if the allocation rate for each band within the

schedule is greater than the allocation rate for the immediately preceding band (i.e., the band with the next lower number of years of age, years of service, or age and service points) but by no more than 5 percentage points. However, a schedule of allocation rates will not be treated as increasing smoothly if the ratio of the allocation rate for any band to the rate for the immediately preceding band is more than 2.0 or if it exceeds the ratio of allocation rates between the two immediately preceding bands.

(C) *Regular intervals.* A schedule of allocation rates has regular intervals of age, years of service or age and service points, if each band, other than the band associated with the highest age, years of service, or age and service points, is the same length. For this purpose, if the schedule is based on age, the first band is deemed to be of the same length as the other bands if it ends at or before age 25. If the first age band ends after age 25, then, in determining whether the length of the first band is the same as the length of other bands, the starting age for the first age band is permitted to be treated as age 25 or any age earlier than 25. For a schedule of allocation rates based on age and service points, the rules of the preceding two sentences are applied by substituting 25 age and service points for age 25. For a schedule of allocation rates based on service, the starting service for the first service band is permitted to be treated as one year of service or any lesser amount of service.

(D) *Minimum allocation rates permitted.* A schedule of allocation rates under a plan does not fail to increase smoothly at regular intervals, within the meaning of paragraphs (b)(1)(iv)(B) and (C) of this section, merely because a minimum uniform allocation rate is provided for all employees or the minimum benefit described in section 416(c)(2) is provided for all non-key employees (either because the plan is top heavy or without regard to whether the plan is top heavy) if the schedule satisfies one of the following conditions—

(1) The allocation rates under the plan that are greater than the minimum allocation rate can be included in a hypothetical schedule of allocation rates that increases smoothly at

regular intervals, within the meaning of paragraphs (b)(1)(iv)(B) and (C) of this section, where the hypothetical schedule has a lowest allocation rate no lower than 1% of plan year compensation; or

(2) For a plan using a schedule of allocation rates based on age, for each age band in the schedule that provides an allocation rate greater than the minimum allocation rate, there could be an employee in that age band with an equivalent accrual rate that is less than or equal to the equivalent accrual rate that would apply to an employee whose age is the highest age for which the allocation rate equals the minimum allocation rate.

(v) *Uniform target benefit allocations.* A plan has allocation rates that are based on a uniform target benefit allocation for the plan year if the plan fails to satisfy the requirements for the safe harbor testing method in paragraph (b)(3) of this section merely because the determination of the allocations under the plan differs from the allocations determined under that safe harbor testing method for any of the following reasons—

(A) The interest rate used for determining the actuarial present value of the stated plan benefit and the theoretical reserve is lower than a standard interest rate;

(B) The stated benefit is calculated assuming compensation increases at a specified rate; or

(C) The plan computes the current year contribution using the actual account balance instead of the theoretical reserve.

(vi) *Minimum allocation gateway—(A) General rule.* A plan satisfies the minimum allocation gateway of this paragraph (b)(1)(vi) if each NHCE has an allocation rate that is at least one third of the allocation rate of the HCE with the highest allocation rate.

(B) *Deemed satisfaction.* A plan is deemed to satisfy the minimum allocation gateway of this paragraph (b)(1)(vi) if each NHCE receives an allocation of at least 5% of the NHCE's compensation within the meaning of section 415(c)(3), measured over a period of time permitted under the definition of plan year compensation.

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(vii) *Determination of allocation rate.* For purposes of paragraph (b)(1)(i)(B) of this section, allocations and allocation rates are determined under § 1.401(a)(4)-2(c)(2), but without taking into account the imputation of permitted disparity under § 1.401(a)(4)-7. However, in determining whether the plan has broadly available allocation rates as provided in paragraph (b)(1)(iii) of this section, differences in allocation rates attributable solely to the use of permitted disparity described in § 1.401(l)-2 are disregarded.

(viii) *Examples.* The following examples illustrate the rules in this paragraph (b)(1):

*Example 1.* (i) Plan M, a defined contribution plan without a minimum service requirement, provides an allocation formula under which allocations are provided to all employees according to the following schedule:

Completed years of service	Allocation rate (in percent)	Ratio of allocation rate for band to allocation rate for immediately preceding band
0-5 .....	3.0	( <sup>1</sup> )
6-10 .....	4.5	1.50
11-15 .....	6.5	1.44
16-20 .....	8.5	1.31
21-25 .....	10.0	1.18
26 or more .....	11.5	1.15

<sup>1</sup> Not applicable.

(ii) Plan M provides that allocation rates for all employees are determined using a single schedule based solely on service, as described in paragraph (b)(1)(iv)(A)(1) of this section. Therefore, if the allocation rates under the schedule increase smoothly at regular intervals as described in paragraph (b)(1)(iv)(A)(2) of this section, then the plan has a gradual age or service schedule described in paragraph (b)(1)(iv) of this section.

(iii) The schedule of allocation rates under Plan M does not increase by more than 5 percentage points between adjacent bands and the ratio of the allocation rate for any band to the allocation rate for the immediately preceding band is never more than 2.0 and does not increase. Therefore, the allocation rates increase smoothly as described in paragraph (b)(1)(iv)(B) of this section. In addition, the bands (other than the highest band) are all 5 years long, so the increases occur at regular intervals as described in paragraph (b)(1)(iv)(C) of this section. Thus, the allocation rates under the plan's schedule increase smoothly at regular intervals as described in paragraph (b)(1)(iv)(A)(2) of this section. Accordingly,

the plan has a gradual age or service schedule described in paragraph (b)(1)(iv) of this section.

(iv) Under paragraph (b)(1)(i) of this section, Plan M satisfies the nondiscrimination in amount requirement of § 1.401(a)(4)-1(b)(2) on the basis of benefits if it satisfies paragraph (b)(1)(i)(A) of this section, regardless of whether it satisfies the minimum allocation gateway of paragraph (b)(1)(vi) of this section.

*Example 2.* (i) The facts are the same as in *Example 1*, except that the 4.5% allocation rate applies for all employees with 10 years of service or less.

(ii) Plan M provides that allocation rates for all employees are determined using a single schedule based solely on service, as described in paragraph (b)(1)(iv)(A)(1) of this section. Therefore, if the allocation rates under the schedule increase smoothly at regular intervals as described in paragraph (b)(1)(iv)(A)(2) of this section, then the plan has a gradual age or service schedule described in paragraph (b)(1)(iv) of this section.

(iii) The bands (other than the highest band) in the schedule are not all the same length, since the first band is 10 years long while other bands are 5 years long. Thus, the schedule does not have regular intervals as described in paragraph (b)(1)(iv)(C) of this section. However, under paragraph (b)(1)(iv)(D) of this section, the schedule of allocation rates does not fail to increase smoothly at regular intervals merely because the minimum allocation rate of 4.5% results in a first band that is longer than the other bands, if either of the conditions of paragraph (b)(1)(iv)(D)(1) or (2) of this section is satisfied.

(iv) In this case, the schedule of allocation rates satisfies the condition in paragraph (b)(1)(iv)(D)(1) of this section because the allocation rates under the plan that are greater than the 4.5% minimum allocation rate can be included in the following hypothetical schedule of allocation rates that increases smoothly at regular intervals and has a lowest allocation rate of at least 1% of plan year compensation:

Completed years of service	Allocation rate (in percent)	Ratio of allocation rate for band to allocation rate for immediately preceding band
0-5 .....	2.5	( <sup>1</sup> )
6-10 .....	4.5	1.80
11-15 .....	6.5	1.44
16-20 .....	8.5	1.31
21-25 .....	10.0	1.18
26 or more .....	11.5	1.15

<sup>1</sup> Not applicable.

(v) Accordingly, the plan has a gradual age or service schedule described in paragraph

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(b)(1)(iv) of this section. Under paragraph (b)(1)(i) of this section, Plan M satisfies the nondiscrimination in amount requirement of § 1.401(a)(4)-1(b)(2) on the basis of benefits if it satisfies paragraph (b)(1)(i)(A) of this section, regardless of whether it satisfies the minimum allocation gateway of paragraph (b)(1)(vi) of this section.

*Example 3.* (i) Plan N, a defined contribution plan, provides an allocation formula under which allocations are provided to all employees according to the following schedule:

Age	Allocation rate (in percent)	Ratio of allocation rate for band to allocation rate for immediately preceding band
Under 25 .....	3.0	( <sup>1</sup> )
25-34 .....	6.0	2.00
35-44 .....	9.0	1.50
45-54 .....	12.0	1.33
55-64 .....	16.0	1.33
65 or older .....	21.0	1.31

<sup>1</sup> Not applicable.

(ii) Plan N provides that allocation rates for all employees are determined using a single schedule based solely on age, as described in paragraph (b)(1)(iv)(A)(I) of this section. Therefore, if the allocation rates under the schedule increase smoothly at regular intervals as described in paragraph (b)(1)(iv)(A)(2) of this section, then the plan has a gradual age or service schedule described in paragraph (b)(1)(iv) of this section.

(iii) The schedule of allocation rates under Plan N does not increase by more than 5 percentage points between adjacent bands and the ratio of the allocation rate for any band to the allocation rate for the immediately preceding band is never more than 2.0 and does not increase. Therefore, the allocation rates increase smoothly as described in paragraph (b)(1)(iv)(B) of this section. In addition, the bands (other than the highest band and the first band, which is deemed to be the same length as the other bands because it ends prior to age 25) are all 5 years long, so the increases occur at regular intervals as described in paragraph (b)(1)(iv)(C) of this section. Thus, the allocation rates under the plan's schedule increase smoothly at regular intervals as described in paragraph (b)(1)(iv)(A)(2) of this section. Accordingly, the plan has a gradual age or service schedule described in paragraph (b)(1)(iv) of this section.

(iv) Under paragraph (b)(1)(i) of this section, Plan N satisfies the nondiscrimination in amount requirement of § 1.401(a)(4)-1(b)(2) on the basis of benefits if it satisfies paragraph (b)(1)(i)(A) of this section, regardless of whether it satisfies the minimum allocation

gateway of paragraph (b)(1)(vi) of this section.

*Example 4.* (i) Plan O, a defined contribution plan, provides an allocation formula under which allocations are provided to all employees according to the following schedule:

Age	Allocation rate (in percent)	Ratio of allocation rate for band to allocation rate for immediately preceding band
Under 40 .....	3	( <sup>1</sup> )
40-44 .....	6	2.00
45-49 .....	9	1.50
50-54 .....	12	1.33
55-59 .....	16	1.33
60-64 .....	20	1.25
65 or older .....	25	1.25

<sup>1</sup> Not applicable.

(ii) Plan O provides that allocation rates for all employees are determined using a single schedule based solely on age, as described in paragraph (b)(1)(iv)(A)(I) of this section. Therefore, if the allocation rates under the schedule increase smoothly at regular intervals as described in paragraph (b)(1)(iv)(A)(2) of this section, then the plan has a gradual age or service schedule described in paragraph (b)(1)(iv) of this section.

(iii) The bands (other than the highest band) in the schedule are not all the same length, since the first band is treated as 15 years long while other bands are 5 years long. Thus, the schedule does not have regular intervals as described in paragraph (b)(1)(iv)(C) of this section. However, under paragraph (b)(1)(iv)(D) of this section, the schedule of allocation rates does not fail to increase smoothly at regular intervals merely because the minimum allocation rate of 3% results in a first band that is longer than the other bands, if either of the conditions of paragraph (b)(1)(iv)(D)(I) or (2) of this section is satisfied.

(iv) In this case, in order to define a hypothetical schedule that could include the allocation rates in the actual schedule of allocation rates, each of the bands below age 40 would have to be 5 years long (or be treated as 5 years long). Accordingly, the hypothetical schedule would have to provide for a band for employees under age 30, a band for employees in the range 30-34 and a band for employees age 35-39.

(v) The ratio of the allocation rate for the age 40-44 band to the next lower band is 2.0. Accordingly, in order for the applicable allocations rates under this hypothetical schedule to increase smoothly, the ratio of the allocation rate for each band in the hypothetical schedule below age 40 to the allocation rate for the immediately preceding band would have to be 2.0. Thus, the allocation

rate for the hypothetical band applicable for employees under age 30 would be .75%, the allocation rate for the hypothetical band for employees in the range 30-34 would be 1.5% and the allocation rate for employees in the range 35-39 would be 3%.

(vi) Because the lowest allocation rate under any possible hypothetical schedule is less than 1% of plan year compensation, Plan O will be treated as satisfying the requirements of paragraphs (b)(1)(iv)(B) and (C) of this section only if the schedule of allocation rates satisfies the steepness condition described in paragraph (b)(1)(iv)(D)(2) of this section. In this case, the steepness condition is not satisfied because the equivalent accrual rate for an employee age 39 is 2.81%, but there is no hypothetical employee in the band for ages 40-44 with an equal or lower equivalent accrual rate (since the lowest equivalent accrual rate for hypothetical employees within this band is 3.74% at age 44).

(vii) Since the schedule of allocation rates under the plan does not increase smoothly at regular intervals, Plan O's schedule of allocation rates is not a gradual age or service schedule. Further, Plan O does not provide uniform target benefit allocations. Therefore, under paragraph (b)(1)(i) of this section, Plan O cannot satisfy the nondiscrimination in amount requirement of § 1.401(a)(4)-1(b)(2) for the plan year on the basis of benefits unless either Plan O provides for broadly available allocation rates for the plan year as described in paragraph (b)(1)(iii) of this section (i.e., the allocation rate at each age is provided to a group of employees that satisfies section 410(b) without regard to the average benefit percentage test), or Plan O satisfies the minimum allocation gateway of paragraph (b)(1)(vi) of this section for the plan year.

*Example 5.* (i) Plan P is a profit-sharing plan maintained by Employer A that covers all of Employer A's employees, consisting of two HCEs, X and Y, and 7 NHCEs. Employee X's compensation is \$170,000 and Employee Y's compensation is \$150,000. The allocation for Employees X and Y is \$30,000 each, resulting in an allocation rate of 17.65% for Employee X and 20% for Employee Y. Under Plan P, each NHCE receives an allocation of 5% of compensation within the meaning of section 415(c)(3), measured over a period of time permitted under the definition of plan year compensation.

(ii) Because the allocation rate for X is not currently available to any NHCE, Plan P does not have broadly available allocation rates within the meaning of paragraph (b)(1)(iii) of this section. Furthermore, Plan P does not provide for age based-allocation rates within the meaning of paragraph (b)(1)(iv) or (v) of this section. Thus, under paragraph (b)(1)(i) of this section, Plan P can satisfy the nondiscrimination in amount requirement of § 1.401(a)(4)-1(b)(2) for the plan

year on the basis of benefits only if Plan P satisfies the minimum allocation gateway of paragraph (b)(1)(vi) of this section for the plan year.

(iii) The highest allocation rate for any HCE under Plan P is 20%. Accordingly, Plan P would satisfy the minimum allocation gateway of paragraph (b)(1)(vi) of this section if all NHCEs have an allocation rate of at least 6.67%, or if all NHCEs receive an allocation of at least 5% of compensation within the meaning of section 415(c)(3) (measured over a period of time permitted under the definition of plan year compensation).

(iv) Under Plan P, each NHCE receives an allocation of 5% of compensation within the meaning of section 415(c)(3) (measured over a period of time permitted under the definition of plan year compensation). Accordingly, Plan P satisfies the minimum allocation gateway of paragraph (b)(1)(vi) of this section.

(v) Under paragraph (b)(1)(i) of this section, Plan P satisfies the nondiscrimination in amount requirement of § 1.401(a)(4)-1(b)(2) on the basis of benefits if it satisfies paragraph (b)(1)(i)(A) of this section.

(2) *Determination of equivalent accrual rates*—(i) *Basic definition.* An employee's equivalent accrual rate for a plan year is the annual benefit that is the result of normalizing the increase in the employee's account balance during the measurement period, divided by the number of years in which the employee benefited under the plan during the measurement period, and expressed either as a dollar amount or as a percentage of the employee's average annual compensation. A measurement period that includes future years may not be used for this purpose.

(ii) *Rules of application*—(A) *Determination of account balance.* The increase in the account balance during the measurement period taken into account under paragraph (b)(2)(i) of this section does not include income, expenses, gains, or losses allocated during the measurement period that are attributable to the account balance as of the beginning of the measurement period, but does include any additional amounts that would have been included in the increase in the account balance but for the fact that they were previously distributed (including a reasonable adjustment for interest). In the case of a measurement period that is the current plan year, an employer may also elect to disregard the income, expenses, gains, and losses allocated

during the current plan year that are attributable to the increase in account balance since the beginning of the year, and thus, determine the increase in account balance during the plan year taking into account only the allocations described in § 1.401(a)(4)-2(c)(2)(ii). In addition, an employer may disregard distributions made to a NHCE as well as distributions made to any employee in plan years beginning before a selected date no later than January 1, 1986.

(B) *Normalization.* The account balances determined under paragraph (b)(2)(ii)(A) of this section are normalized by treating them as single-sum benefits that are immediately and unconditionally payable to the employee. A standard interest rate, and a straight life annuity factor that is based on the same or a different standard interest rate and on a standard mortality table, must be used in normalizing these benefits. In addition, no mortality may be assumed prior to the employee's testing age.

(iii) *Options.* Any of the optional rules in § 1.401(a)(4)-3(d)(3) (e.g., imputation of permitted disparity) may be applied in determining an employee's equivalent accrual rate by substituting the employee's equivalent accrual rate (determined without regard to the option) for the employee's normal accrual rate (i.e., not most valuable accrual rate) in that section where appropriate. For this purpose, however, the last sentence of the fresh-start alternative in § 1.401(a)(4)-3(d)(3)(iii)(A) (dealing with compensation adjustments to the frozen accrued benefit) is not applicable. No other options are available in determining an employee's equivalent accrual rate except those (e.g., selection of alternative measurement periods) specifically provided in this paragraph (b)(2). Thus, for example, none of the optional special rules in § 1.401(a)(4)-3(f) (e.g., determination of benefits on other than a plan year basis under § 1.401(a)(4)-3(f)(6)) is available.

(iv) *Consistency rule.* Equivalent accrual rates must be determined in a consistent manner for all employees for the plan year. Thus, for example, the same measurement periods and standard interest rates must be used,

and any available options must be applied consistently if at all.

(3) *Safe-harbor testing method for target benefit plans*—(i) *General rule.* A target benefit plan is a money purchase pension plan under which contributions to an employee's account are determined by reference to the amounts necessary to fund the employee's stated benefit under the plan. Whether a target benefit plan satisfies section 401(a)(4) with respect to an equivalent amount of benefits is generally determined under paragraphs (b)(1) and (b)(2) of this section. A target benefit plan is deemed to satisfy section 401(a)(4) with respect to an equivalent amount of benefits, however, if each of the following requirements is satisfied:

(A) *Stated benefit formula.* Each employee's stated benefit must be determined as the straight life annuity commencing at the employee's normal retirement age under a formula that would satisfy the requirements of § 1.401(a)(4)-3(b)(4)(i)(C) (1) or (2), and that would satisfy each of the uniformity requirements in § 1.401(a)(4)-3(b)(2) (taking into account the relevant exceptions provided in § 1.401(a)(4)-3(b)(6)), if the plan were a defined benefit plan with the same benefit formula. In determining whether these requirements are satisfied, the rules of § 1.401(a)(4)-3(f) do not apply, and, in addition, except as provided in paragraph (b)(3)(vii) of this section, an employee's stated benefit at normal retirement age under the stated benefit formula is deemed to accrue ratably over the period ending with the plan year in which the employee is projected to reach normal retirement age and beginning with the latest of: the first plan year in which the employee benefited under the plan, the first plan year taken into account in the stated benefit formula, and any plan year immediately following a plan year in which the plan did not satisfy this paragraph (b)(3). Thus, except as provided in paragraph (b)(3)(vii) of this section, under § 1.401(a)(4)-3(b)(2)(v) an employee's stated benefit may not take into account service in years prior to the first plan year that the employee benefited under the plan, and an employee's stated benefit may not take into account service in plan years prior

to the current plan year unless the plan satisfied this paragraph (b)(3) in all of those prior plan years.

(B) *Employer and employee contributions.* Employer contributions with respect to each employee must be based exclusively on the employee's stated benefit using the method provided in paragraph (b)(3)(iv) of this section, and forfeitures and any other amounts under the plan taken into account under § 1.401(a)(4)-2(c)(2)(ii) (other than employer contributions) are used exclusively to reduce employer contributions. Employee contributions (if any) may not be used to fund the stated benefit.

(C) *Permitted disparity.* If permitted disparity is taken into account, the stated benefit formula must satisfy § 1.401(l)-3. For this purpose, the 0.75-percent factor in the maximum excess or offset allowance in § 1.401(l)-3(b)(2)(i) or (b)(3)(i), respectively, as adjusted in accordance with § 1.401(l)-3(d)(9) (and, if the employee's normal retirement age is not the employee's social security retirement age, § 1.401(l)-3(e)), is further reduced by multiplying the factor by 0.80.

(ii) *Changes in stated benefit formula.* A plan does not fail to satisfy paragraph (b)(3)(i) of this section merely because the plan determines each employee's stated benefit in the current plan year under a stated benefit formula that differs from the stated benefit formula used to determine the employee's stated benefit in prior plan years.

(iii) *Stated benefits after normal retirement age.* A target benefit plan may limit increases in the stated benefit after normal retirement age consistent with the requirements applicable to defined benefit plans under section 411(b)(1)(H) (without regard to section 411(b)(1)(H)(iii)), provided that the limitation applies on the same terms to all employees. Thus, post-normal retirement benefits required under § 1.401(a)(4)-3(b)(2)(ii) must be provided under the stated benefit formula, subject to any uniformly applicable service cap under the formula.

(iv) *Method for determining required employer contributions—(A) General rule.* An employer's required contribution to the account of an employee for a plan

year is determined based on the employee's stated benefit and the amount of the employee's theoretical reserve as of the date the employer's required contribution is determined for the plan year (the determination date). Paragraph (b)(3)(iv)(B) of this section provides rules for determining an employee's theoretical reserve. Paragraph (b)(3)(iv)(C) and (D) of this section provides rules for determining an employer's required contributions.

(B) *Theoretical reserve—(1) Initial theoretical reserve.* An employee's theoretical reserve as of the determination date for the first plan year in which the employee benefits under the plan, the first plan year taken into account under the stated benefit formula (if that is the current plan year), or the first plan year immediately following any plan year in which the plan did not satisfy this paragraph (b)(3), is zero.

(2) *Theoretical reserve in subsequent plan years.* An employee's theoretical reserve as of the determination date for a plan year (other than a plan year described in paragraph (b)(3)(iv)(B)(1) of this section) is the employee's theoretical reserve as of the determination date for the prior plan year, plus the employer's required contribution for the prior plan year (as limited by section 415, but without regard to the additional contributions described in paragraph (b)(3)(v) of this section) both increased by interest from the determination date for the prior plan year through the determination date for the current plan year, but not beyond the determination date for the plan year that includes the employee's normal retirement date. (Thus, an employee's theoretical reserve as of the determination date for a plan year does not include the amount of the employer's required contribution for the plan year.) The interest rate for determining employer contributions that was in effect on the determination date in the prior plan year must be applied to determine the required interest adjustment for this period. For plan years beginning after the effective date applicable to the plan under § 1.401(a)(4)-13(a) or (b), a standard interest rate must be used, and may not be changed except on the determination date for a plan year.

(C) *Required contributions for employees under normal retirement age.* The required employer contributions with respect to an employee whose attained age is less than the employee's normal retirement age must be determined for each plan year as follows:

(1) Determine the employee's fractional rule benefit (within the meaning of § 1.411(b)-1(b)(3)(ii)(A)) under the plan's stated benefit formula as if the plan were a defined benefit plan with the same benefit formula.

(2) Determine the actuarial present value of the fractional rule benefit determined in paragraph (b)(3)(iv)(C)(1) of this section as of the determination date for the current plan year, using a standard interest rate and a standard mortality table that are set forth in the plan and that are the same for all employees, and assuming no mortality before the employee's normal retirement age.

(3) Determine the excess, if any, of the amount determined in paragraph (b)(3)(iv)(C)(2) of this section over the employee's theoretical reserve for the current plan year determined under paragraph (b)(3)(iv)(B) of this section.

(4) Determine the required employer contribution for the current plan year by amortizing on a level annual basis, using the same interest rate used for paragraph (b)(3)(iv)(C)(2) of this section, the result in paragraph (b)(3)(iv)(C)(3) of this section over the period beginning with the determination date for the current plan year and ending with the determination date for the plan year in which the employee is projected to reach normal retirement age.

(D) *Required contributions for employees over normal retirement age.* The required employer contributions with respect to an employee whose attained age equals or exceeds the employee's normal retirement age is the excess, if any, of the actuarial present value, as of the determination date for the current plan year, of the employee's stated benefit for the current plan year (determined using an immediate straight life annuity factor based on a standard interest rate and a standard mortality table, for an employee whose attained age equals the employee's normal retirement age) over the employee's the-

oretical reserve as of the determination date.

(v) *Effect of section 415 and 416 requirements.* A target benefit plan does not fail to satisfy this paragraph (b)(3) merely because required contributions under the plan are limited by section 415 in a plan year. Similarly, a target benefit plan does not fail to satisfy this paragraph (b)(3) merely because additional contributions are made consistent with the requirements of section 416(c)(2) (regardless of whether the plan is top-heavy).

(vi) *Certain conditions on allocations.* A target benefit plan does not fail to satisfy this paragraph (b)(3) merely because required contributions under the plan are subject to the conditions on allocations permitted under § 1.401(a)(4)-2(b)(4)(iii).

(vii) *Special rules for target benefit plans qualified under prior law—(A) Service taken into account prior to satisfaction of this paragraph.* For purposes of determining whether the stated benefit formula satisfies paragraph (b)(3)(i)(A) of this section (e.g., whether the period over which an employee's stated benefit is deemed to accrue is the same as the period taken into account under the stated benefit formula as required by paragraph (b)(3)(i)(A) of this section), a target benefit plan that was adopted and in effect on September 19, 1991, is deemed to have satisfied this paragraph (b)(3), and an employee is treated as benefiting under the plan, in any year prior to the effective date applicable to the plan under § 1.401(a)(4)-13 (a) or (b) that was taken into account in the stated benefit formula under the plan on September 19, 1991, if the plan satisfied the applicable non-discrimination requirements for target benefit plans for that prior year.

(B) *Initial theoretical reserve.* Notwithstanding paragraph (b)(3)(iv)(B)(1) of this section, a target benefit plan under which the stated benefit formula takes into account service for an employee for plan years prior to the first plan year in which the plan satisfied this paragraph (b)(3), as permitted under paragraph (b)(3)(vii)(A) of this section, must determine an initial theoretical reserve for the employee as of the determination date for the last plan year beginning before such plan

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year under the rules of § 1.401(a)(4)-13(e).

(C) *Satisfaction of prior law.* In determining whether a plan satisfied the applicable nondiscrimination requirements for target benefit plans for any period prior to the effective date applicable to the plan under § 1.401(a)(4)-13 (a) or (b), no amendments after September 19, 1991, other than amendments necessary to satisfy section 401(l), are taken into account.

(viii) *Examples.* The following examples illustrate the rules in this paragraph (b)(3):

*Example 1.* (a) Employer X maintains a target benefit plan with a calendar plan year that bases contributions on a stated benefit equal to 40 percent of each employee's average annual compensation, reduced pro rata for years of participation less than 25, payable annually as a straight life annuity commencing at normal retirement age. The UP-84 mortality table and an interest rate of 7.5 percent are used to calculate the contributions necessary to fund the stated benefit. Required contributions are determined on the last day of each plan year. The normal retirement age under the plan is 65. Employee M is 39 years old in 1994, has participated in the plan for six years, and has average annual compensation equal to \$60,000 for the 1994 plan year. Assume that Employee M's theoretical reserve as of the last day of the 1993 plan year is \$13,909, determined under § 1.401(a)(4)-13(e), and that required employer contributions for 1993 were determined using an interest rate of six percent.

(b) Under these facts, Employer X's 1994 required contribution to fund Employee M's stated benefit is \$1,318, calculated as follows:

(1) Employee M's fractional rule benefit is \$24,000 (40 percent of Employee M's average annual compensation of \$60,000).

(2) The actuarial present value of Employee M's fractional rule benefit as of the last day of the 1994 plan year is \$30,960 (Employee M's fractional rule benefit of \$24,000 multiplied by 1.290, the actuarial present value factor for an annual straight life annuity commencing at age 65 applicable to a 39-year-old employee, determined using the stated interest rate of 7.5 percent and the UP-84 mortality table, and assuming no mortality before normal retirement age).

(3) The actuarial present value of Employee M's fractional rule benefit (\$30,960) is reduced by Employee M's theoretical reserve as of the last day of the 1994 plan year. The theoretical reserve on that day is \$14,744—the \$13,909 theoretical reserve as of the last day of the 1993 plan year, increased by interest for one year at the rate of six percent. Because the required contribution for the

1993 plan year is taken into account under § 1.401(a)(4)-13(e)(2) in determining the theoretical reserve as of the last day of the 1993 plan year, it is not added to the theoretical reserve again in this paragraph (b)(3) of this *Example 1*. The resulting difference is \$16,216 (\$30,960 - \$14,744).

(4) The \$16,216 excess of the actuarial present value of Employee M's fractional rule benefit over Employee M's theoretical reserve is multiplied by 0.0813, the amortization factor applicable to a 39-year-old employee determined using the stated interest rate of 7.5 percent. The product of \$1,318 is the amount of the required employer contribution for Employee M for the 1994 plan year.

*Example 2.* (a) The facts are the same as in *Example 1*, except that as of January 1, 1995, the plan's stated benefit formula is amended to provide for a stated benefit equal to 45 percent of average annual compensation, reduced pro rata for years of participation less than 25, payable annually as a straight life annuity commencing at normal retirement age. For the 1995 plan year, Employee M's average annual compensation continues to be \$60,000. The mortality table used for the calculation of the employer's required contributions remains the same as in the prior plan year, but the plan's stated interest rate is changed to 8.0 percent effective as of December 31, 1995.

(b) Under these facts, Employer X's required contribution for Employee M is \$1,290, calculated as follows:

(1) Employee M's fractional rule benefit is \$27,000 (45 percent of \$60,000).

(2) The actuarial present value of Employee M's fractional rule benefit as of the last day of the 1995 plan year is \$32,319 (\$27,000 multiplied by 1.197, the actuarial present value factor for an annuity commencing at age 65 applicable to a 40-year-old employee, determined using the stated interest rate of 8.0 percent and the UP-84 mortality table, and assuming no mortality before normal retirement age).

(3) The actuarial present value of Employee M's fractional rule benefit (\$32,319) is reduced by Employee M's theoretical reserve as of the last day of the 1995 plan year. The theoretical reserve as of that day is \$17,267—the \$14,744 theoretical reserve as of the last day of the 1994 plan year plus the \$1,318 required contribution for the 1994 plan year, both increased by interest for one year at the rate of 7.5 percent. The resulting difference is \$15,052 (\$32,319 - \$17,267).

(4) The result in paragraph (b)(3) of this *Example 2* is multiplied by 0.0857, the amortization factor applicable to a 40-year-old employee determined using the stated interest rate of 8.0 percent. The product, \$1,290, is the amount of the required employer contribution for Employee M for the 1995 plan year.

(c) *Nondiscrimination in amount of contributions under a defined benefit plan—*

(1) *General rule.* Equivalent allocations under a defined benefit plan are nondiscriminatory in amount for a plan year if the plan would satisfy § 1.401(a)(4)-3(c)(1) (taking into account § 1.401(a)(4)-3(c)(3)) for the plan year if an equivalent normal and most valuable allocation rate, as determined under paragraph (c)(2) of this section, were substituted for each employee's normal and most valuable accrual rate, respectively, in the determination of rate groups.

(2) *Determination of equivalent allocation rates—*(i) *Basic definitions.* An employee's equivalent normal and most valuable allocation rates for a plan year are, respectively, the actuarial present value of the increase over the plan year in the benefit that would be taken into account in determining the employee's normal and most valuable accrual rates for the plan year, expressed either as a dollar amount or as a percentage of the employee's plan year compensation. In the case of a contributory DB plan, the rules in § 1.401(a)(4)-6(b)(1), (b)(5), or (b)(6) must be used to determine the amount of each employee's employer-provided benefit that would be taken into account for this purpose.

(ii) *Rules for determining actuarial present value.* The actuarial present value of the increase in an employee's benefit must be determined using a standard interest rate and a standard mortality table, and no mortality may be assumed prior to the employee's testing age.

(iii) *Options.* The optional rules in § 1.401(a)(4)-2(c)(2)(iv) (imputation of permitted disparity) and (v) (grouping of rates) may be applied to determine an employee's equivalent normal and most valuable allocation rates by substituting those rates (determined without regard to the option) for the employee's allocation rate in that section where appropriate. In addition, the limitations under section 415 may be taken into account under § 1.401(a)(4)-3(d)(2)(ii)(B), and qualified disability benefits may be taken into account as accrued benefits under § 1.401(a)(4)-3(f)(2), in determining the increase in an employee's accrued benefit during a

plan year for purposes of paragraph (c)(2)(i) of this section, if those rules would otherwise be available. No other options are available in determining an employee's equivalent normal and most valuable allocations rate except those (e.g., selection of alternative standard interest rates) specifically provided in this paragraph (c)(2). Thus, while all of the mandatory rules in § 1.401(a)(4)-3(d) and (f) for determining the amount of benefits used to determine an employee's normal and most valuable accrual rates (e.g., the treatment of early retirement window benefits in § 1.401(a)(4)-3(f)(4)) are applicable in determining an employee's equivalent normal and most valuable allocation rates, none of the optional rules under § 1.401(a)(4)-3 is available (except the options relating to the section 415 limits and qualified disability benefits noted above).

(iv) *Consistency rule.* Equivalent allocation rates must be determined in a consistent manner for all employees for the plan year. Thus, for example, the same standard interest rates must be used, and any available options must be applied consistently if at all.

(3) *Safe harbor testing method for cash balance plans—*(i) *General rule.* A cash balance plan is a defined benefit plan that defines benefits for each employee by reference to the employee's hypothetical account. An employee's hypothetical account is determined by reference to hypothetical allocations and interest adjustments that are analogous to actual allocations of contributions and earnings to an employee's account under a defined contribution plan. Because a cash balance plan is a defined benefit plan, whether it satisfies section 401(a)(4) with respect to the equivalent amount of contributions is generally determined under paragraphs (c)(1) and (c)(2) of this section. However, a cash balance plan that satisfies each of the requirements in paragraphs (c)(3)(ii) through (xi) of this section is deemed to satisfy section 401(a)(4) with respect to an equivalent amount of contributions.

(ii) *Plan requirements in general.* The plan must be an accumulation plan. The benefit formula under the plan must provide for hypothetical allocations for each employee in the plan

that satisfy paragraph (c)(3)(iii) of this section, and interest adjustments to these hypothetical allocations that satisfy paragraph (c)(3)(iv) of this section. The benefit formula under the plan must provide that these hypothetical allocations and interest adjustments are accumulated as a hypothetical account for each employee, determined in accordance with paragraph (c)(3)(v) of this section. The plan must provide that an employee's accrued benefit under the plan as of any date is an annuity that is the actuarial equivalent of the employee's projected hypothetical account as of normal retirement age, determined in accordance with paragraph (c)(3)(vi) of this section. In addition, the plan must satisfy paragraphs (c)(3)(vii) through (xi) of this section (to the extent applicable) regarding optional forms of benefit, past service credits, post-normal retirement age benefits, certain uniformity requirements, and changes in the plan's benefit formula, respectively.

(iii) *Hypothetical allocations*—(A) *In general*. The hypothetical allocations provided under the plan's benefit formula must satisfy either paragraph (c)(3)(iii)(B) or (C) of this section. Paragraph (c)(3)(iii)(B) of this section provides a design-based safe harbor that does not require the annual comparison of hypothetical allocations under the plan. Paragraph (c)(3)(iii)(C) of this section requires the annual comparison of hypothetical allocations.

(B) *Uniform hypothetical allocation formula*. To satisfy this paragraph (c)(3)(iii)(B), the plan's benefit formula must provide for hypothetical allocations for all employees in the plan for all plan years of amounts that would satisfy § 1.401(a)(4)-2(b)(3) for each such plan year if the hypothetical allocations were the only allocations under a defined contribution plan for the employees for those plan years. Thus, the plan's benefit formula must provide for hypothetical allocations for all employees in the plan for all plan years that are the same percentage of plan year compensation or the same dollar amount. In determining whether the hypothetical allocations satisfy § 1.401(a)(4)-2(b)(3), the only provisions of § 1.401(a)(4)-2(b)(5) that apply are

§ 1.401(a)(4)-2(b)(5)(ii) (section 401(l) permitted disparity), (iii) (entry dates), (vi) (certain limits on allocations), and (vii) (dollar allocation per uniform unit of service). Thus, for example, the plan's benefit formula may take permitted disparity into account in a manner allowed under § 1.401(l)-2 for defined contribution plans.

(C) *Modified general test*. To satisfy this paragraph (c)(3)(iii)(C), the plan's benefit formula must provide for hypothetical allocations for all employees in the plan for the plan year that would satisfy the general test in § 1.401(a)(4)-2(c) for the plan year, if the hypothetical allocations were the only allocations for the employees taken into account under § 1.401(a)(4)-2(c)(2)(ii) under a defined contribution plan for the plan year. In determining whether the hypothetical allocations satisfy § 1.401(a)(4)-2(c), the provisions of § 1.401(a)(4)-2(c)(2)(iii) through (v) apply. Thus, for example, permitted disparity may be imputed under § 1.401(a)(4)-2(c)(2)(iv) in accordance with the rules of § 1.401(a)(4)-7(b) applicable to defined contribution plans.

(iv) *Interest adjustments to hypothetical allocations*—(A) *General rule*. The plan benefit formula must provide that the dollar amount of the hypothetical allocation for each employee for a plan year is automatically adjusted using an interest rate that satisfies paragraph (c)(3)(iv)(B) of this section, compounded no less frequently than annually, for the period that begins with a date in the plan year and that ends at normal retirement age. This requirement is not satisfied if any portion of the interest adjustments to a hypothetical allocation are contingent on the employee's satisfaction of any requirement. Thus, for example, the interest adjustments to a hypothetical allocation must be provided through normal retirement age, even though the employee terminates employment or commences benefits before that age.

(B) *Requirements with respect to interest rates*. The interest rate must be a single interest rate specified in the plan that is the same for all employees in the plan for all plan years. The interest rate must be either a standard interest rate or a variable interest rate. If the interest rate is a variable

interest rate, it must satisfy paragraph (c)(3)(iv)(C) of this section.

(C) *Variable interest rates*—(1) *General rule.* The plan must specify the variable interest rate, the method for determining the current value of the variable interest rate, and the period (not to exceed 1 year) for which the current value of the variable interest rate applies. Permissible variable interest rates are listed in paragraph (c)(3)(iv)(C)(2) of this section. Permissible methods for determining the current value of the variable interest rate are provided in paragraph (c)(3)(iv)(C)(3) of this section.

(2) *Permissible variable interest rates.* The variable interest rate specified in the plan must be one of the following—

(i) The rate on 3-month Treasury Bills,

(ii) The rate on 6-month Treasury Bills,

(iii) The rate on 1-year Treasury Bills,

(iv) The yield on 1-year Treasury Constant Maturities,

(v) The yield on 2-year Treasury Constant Maturities,

(vi) The yield on 5-year Treasury Constant Maturities,

(vii) The yield on 10-year Treasury Constant Maturities,

(viii) The yield on 30-year Treasury Constant Maturities, or

(ix) The single interest rate such that, as of a single age specified in the plan, the actuarial present value of a deferred straight life annuity of an amount commencing at the normal retirement age under the plan, calculated using that interest rate and a standard mortality table but assuming no mortality before normal retirement age, is equal to the actuarial present value, as of the single age specified in the plan, of the same annuity calculated using the section 417(e) rates applicable to distributions in excess of \$25,000 (determined under §1.417(e)-1(d)), and the same mortality assumptions.

(3) *Current value of variable interest rate.* The current value of the variable interest rate that applies for a period must be either the value of the variable interest rate determined as of a specified date in the period or the immediately preceding period, or the average of the values of the variable inter-

est rate as of two or more specified dates during the current period or the immediately preceding period. The value as of a date of the rate on a Treasury Bill is the average auction rate for the week or month in which the date falls, as reported in the Federal Reserve Bulletin. The value as of a date of the yield on a Treasury Constant Maturity is the average yield for the week, month, or year in which the date falls, as reported in the Federal Reserve Bulletin. (The Federal Reserve Bulletin is published by the Board of Governors of the Federal Reserve System and is available from Publication Services, Mail Stop 138, Board of Governors of the Federal Reserve System, Washington DC 20551.) The plan may limit the current value of the variable interest rate to a maximum (not less than the highest standard interest rate), or a minimum (not more than the lowest standard interest rate), or both.

(v) *Hypothetical account*—(A) *Current value of hypothetical account.* As of any date, the current value of an employee's hypothetical account must equal the sum of all hypothetical allocations and the respective interest adjustments to each such hypothetical allocation provided through that date for the employee under the plan's benefit formula (without regard to any interest adjustments provided under the plan's benefit formula for periods after that date).

(B) *Value of hypothetical account as of normal retirement age.* Under paragraph (c)(3)(vi) of this section, the value of an employee's hypothetical account must be determined as of normal retirement age in order to determine the employee's accrued benefit as of any date at or before normal retirement age. As of any date at or before normal retirement age, the value of an employee's hypothetical account as of normal retirement age must equal the sum of each hypothetical allocation provided through that date for the employee under the plan's benefit formula, plus the interest adjustments provided through normal retirement age on each of those hypothetical allocations for the employee under the plan's benefit

formula (without regard to any hypothetical allocations that might be provided after that date under the plan's benefit formula). If the interest rate specified in the plan is a variable interest rate, the plan must specify that the determination in the preceding sentence is made by assuming that the current value of the variable interest rate for all future periods is either the current value of the variable interest rate for the current period or the average of the current values of the variable interest rate for the current period and one or more periods immediately preceding the current period (not to exceed 5 years in the aggregate).

(vi) *Determination of accrued benefit—*

(A) *Definition of accrued benefit.* The plan must provide that at any date at or before normal retirement age the accrued benefit (within the meaning of section 411(a)(7)(A)(i)) of each employee in the plan is an annuity commencing at normal retirement age that is the actuarial equivalent of the employee's hypothetical account as of normal retirement age (as determined under paragraph (c)(3)(v)(B) of this section). The separate benefit that each employee accrues for a plan year is an annuity that is the actuarial equivalent of the employee's hypothetical allocation for that plan year, including the automatic adjustments for interest through normal retirement age required under paragraph (c)(3)(iv) of this section.

(B) *Normal form of benefit.* The annuity specified in paragraph (c)(3)(vi)(A) of this section must provide an annual benefit payable in the same form at the same uniform normal retirement age for all employees in the plan. The annual benefit must be the normal retirement benefit under the plan (within the meaning of section 411(a)(9)) under the plan.

(C) *Determination of actuarial equivalence.* For purposes of this paragraph (c)(3)(vi) and paragraph (c)(3)(ix) of this section, actuarial equivalence must be determined using a standard mortality table and either a standard interest rate or the interest rate specified in the plan for making interest adjustments to hypothetical allocations. If the interest rate used is the interest

rate specified in the plan, and that rate is a variable interest rate, the assumed value of the variable interest rate for all future periods must be the same value that would be assumed for purposes of paragraph (c)(3)(v)(B) of this section. The same actuarial assumptions must be used for all employees in the plan.

(D) *Effect of section 415 and 416 requirements.* A plan does not fail to satisfy this paragraph (c)(3)(vi) merely because the accrued benefits under the plan are limited by section 415, or merely because the accrued benefits under the plan are the greater of the accrued benefits otherwise determined under the plan and the minimum benefit described in section 416(c)(1) (regardless of whether the plan is top-heavy).

(vii) *Optional forms of benefit—(A) In general.* The plan must satisfy the uniform subsidies requirement of § 1.401(a)(4)-3(b)(2)(iv) with respect to all subsidized optional forms of benefit.

(B) *Limitation on subsidies.* Unless hypothetical allocations are determined under a uniform hypothetical allocation formula that satisfies paragraph (c)(3)(iii)(B) of this section, the actuarial present value of any QJSA provided under the plan must not be greater than the single sum distribution to the employee that would satisfy paragraph (c)(3)(vii)(C) of this section assuming that it was distributed to the employee on the date of commencement of the QJSA.

(C) *Distributions subject to section 417(e).* Except as otherwise required under section 415(b), if the plan provides for a distribution alternative that is subject to the interest rate restrictions under section 417(e), the actuarial present value of the benefit paid to an employee under the distribution alternative must equal the non-forfeitable percentage (determined under the plan's vesting schedule) of the greater of the following two amounts—

(1) The current value of the employee's hypothetical account as of the date the distribution commences, calculated in accordance with paragraph (c)(3)(v)(A) of this section.

(2) The actuarial present value (calculated in accordance with § 1.417(e)-1(d)) of the employee's accrued benefit.

(D) *Determination of actuarial present value.* For purposes of this paragraph (c)(3)(vii), actuarial present value must be determined using a reasonable interest rate and mortality table. A standard interest rate and a standard mortality table are considered reasonable for this purpose.

(viii) *Past service credit.* The benefit formula under the plan may not provide for hypothetical allocations in the current plan year that are attributable to years of service before the current plan year, unless each of the following requirements is satisfied—

(A) The years of past service credit are granted on a uniform basis to all current employees in the plan.

(B) Hypothetical allocations for the current plan year are determined under a uniform hypothetical allocation formula that satisfies paragraph (c)(3)(iii)(B) of this section.

(C) The hypothetical allocations attributable to the years of past service would have satisfied the uniform hypothetical allocation formula requirement of paragraph (c)(3)(iii)(B) of this section, and the interest adjustments to those hypothetical allocations would have satisfied paragraph (c)(3)(iv)(A) of this section, if the plan provision granting past service had been in effect for the entire period for which years of past service are granted to any employee. In order to satisfy this requirement, the hypothetical allocation attributable to a year of past service must be adjusted for interest in accordance with paragraph (c)(3)(iv) of this section for the period (including the retroactive period) beginning with the year of past service to which the hypothetical allocation is attributable and ending at normal retirement age. If the interest rate specified in the plan is a variable interest rate, the interest adjustments for the period prior to the current plan year either must be based on the current value of the variable interest rate for the period in which the grant of past service first becomes effective or must be reconstructed based on the then current value of the variable interest rate that would have applied during each prior period.

(ix) *Employees beyond normal retirement age.* In the case of an employee who commences receipt of benefits

after normal retirement age, the plan must provide that interest adjustments continue to be made to an employee's hypothetical account until the employee's benefit commencement date. In the case of an employee described in the previous sentence, the employee's accrued benefit is defined as an annuity that is the actuarial equivalent of the employee's hypothetical account determined in accordance with paragraph (c)(3)(v)(A) of this section as of the date of benefit commencement.

(x) *Additional uniformity requirements.* In addition to any uniformity requirements provided elsewhere in this paragraph (c)(3), the plan must satisfy the uniformity requirements in § 1.401(a)(4)-3(b)(2)(v) (uniform vesting and service requirements) and (vi) (no employee contributions). A plan does not fail to satisfy the uniformity requirements of this paragraph (c)(3)(x) or any other uniformity requirement provided in this paragraph (c)(3) merely because the plan contains one or more of the provisions described in § 1.401(a)(4)-3(b)(8)(iv) (prior vesting schedules), (v) (certain conditions on accruals), or (xi) (multiple definitions of service).

(xi) *Changes in benefit formula, allocation formula, or interest rates.* A plan does not fail to satisfy this paragraph (c)(3) merely because the plan is amended to change the benefit formula, hypothetical allocation formula, or the interest rate used to adjust hypothetical allocations for plan years after a fresh-start date, provided that the accrued benefits for plan years beginning after the fresh-start date are determined in accordance with § 1.401(a)(4)-13(c), as modified by § 1.401(a)(4)-13(f).

(d) *Safe-harbor testing method for defined benefit plans that are part of a floor-offset arrangement—(1) General rule.* A defined benefit plan that is part of a floor-offset arrangement is deemed to satisfy the nondiscriminatory amount requirement of § 1.401(a)(4)-1(b)(2) if all of the following requirements are satisfied:

(i) Under the floor-offset arrangement, the accrued benefit (as defined in section 411(a)(7)(A)(i)) that would otherwise be provided to an employee under the defined benefit plan must be

reduced solely by the actuarial equivalent of all or part of the employee's account balance attributable to employer contributions under a defined contribution plan maintained by the same employer (plus the actuarial equivalent of all or part of any prior distributions from that portion of the account balance). If any portion of the benefit that is being offset is nonforfeitable, that portion may be offset only by a benefit (or portion of a benefit) that is also nonforfeitable. In determining the actuarial equivalent of amounts provided under the defined contribution plan, an interest rate no higher than the highest standard interest rate must be used, and no mortality may be assumed in determining the actuarial equivalent of any prior distributions from the defined contribution plan or for periods prior to the benefit commencement date under the defined benefit plan.

(ii) The defined benefit plan may not be a contributory DB plan (unless it satisfies § 1.401(a)(4)-6(b)(6)), and benefits under the defined benefit plan may not be reduced by any portion of the employee's account balance under the defined contribution plan (or prior distributions from that account) that are attributable to employee contributions.

(iii) The defined benefit plan and the defined contribution plan must benefit the same employees.

(iv) The offset under the defined benefit plan must be applied to all employees on the same terms.

(v) All employees must have available to them under the defined contribution plan the same investment options and the same options with respect to the timing of preretirement distributions.

(vi) The defined benefit plan must satisfy the uniformity requirements of § 1.401(a)(4)-3(b)(2) and the unit credit safe harbor in § 1.401(a)(4)-3(b)(3) without taking into account the offset described in paragraph (d)(1)(i) of this section (i.e., on a gross-benefit basis), and the defined contribution plan must satisfy any of the tests in § 1.401(a)(4)-2(b) or (c). Alternatively, the defined benefit plan must satisfy any of the tests in § 1.401(a)(4)-3(b) or (c) without taking into account the offset described in paragraph (d)(1)(i) of this

section, and the defined contribution plan must satisfy the uniform allocation safe harbor in § 1.401(a)(4)-2(b)(2).

(vii) The defined contribution plan may not be a section 401(k) plan or a section 401(m) plan.

(2) *Application of safe-harbor testing method to qualified offset arrangements.*

A defined benefit plan that is part of a qualified offset arrangement as defined in section 1116(f)(5) of the Tax Reform Act of 1986, Public Law No. 99-514, is deemed to satisfy the requirements of paragraph (d)(1)(vi) and (vii) of this section, if the only defined contribution plans included in the qualified offset arrangement are section 401(k) plans, section 401(m) plans, or both, and the defined benefit plan would satisfy the requirements of paragraph (d)(1)(vi) of this section assuming the elective contributions for each employee under the defined contribution plan were the same (either as a dollar amount or as a percentage of compensation) for all plan years since the establishment of the plan.

[T.D. 8360, 56 FR 47580, Sept. 19, 1991; 57 FR 4720, Feb. 7, 1992; 57 FR 10952, 10953, Mar. 31, 1992, as amended by T.D. 8485, 58 FR 46807, Sept. 3, 1993; T.D. 8954, 66 FR 34540, June 29, 2001]

**§ 1.401(a)(4)-9 Plan aggregation and restructuring.**

(a) *Introduction.* Two or more plans that are permissively aggregated and treated as a single plan under §§ 1.410(b)-7(d) must also be treated as a single plan for purposes of section 401(a)(4). See § 1.401(a)(4)-12 (definition of plan). An aggregated plan is generally tested under the same rules applicable to single plans. Paragraph (b) of this section, however, provides special rules for determining whether a plan that consists of one or more defined contribution plans and one or more defined benefit plans (a DB/DC plan) satisfies section 401(a)(4) with respect to the amount of employer-provided benefits and the availability of benefits, rights, and features. Paragraph (c) of this section provides rules allowing a plan to be treated as consisting of separate component plans and allowing the component plans to be tested separately under section 401(a)(4).