

Form 5500-SF Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Short Form Annual Return/Report of Small Employee Benefit Plan This form is required to be filed under sections 104 and 4065 of the Employee Retirement Income Security Act of 1974 (ERISA), and sections 6057(b) and 6058(a) of the Internal Revenue Code (the Code). ▶ Complete all entries in accordance with the instructions to the Form 5500-SF.	OMB Nos. 1210-0110 1210-0089 2012 This Form is Open to Public Inspection
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Part I Annual Report Identification Information			
For calendar plan year 2012 or fiscal plan year beginning <u>01/01/2012</u> and ending <u>12/31/2012</u>			
A This return/report is for:	☒ a single-employer plan	☐ a multiple-employer plan (not multiemployer)	☐ a one-participant plan
B This return/report is:	☐ the first return/report	☐ the final return/report	
	☐ an amended return/report	☐ a short plan year return/report (less than 12 months)	
C Check box if filing under:	☒ Form 5558	☐ automatic extension	☐ DFVC program
	☐ special extension (enter description)		

Part II Basic Plan Information —enter all requested information			
1a Name of plan CHEMICAL METHODS, INC. CASH BALANCE PLAN		1b Three-digit plan number (PN) ▶	003
		1c Effective date of plan 01/01/2010	
2a Plan sponsor's name and address; include room or suite number (employer, if for a single-employer plan) CHEMICAL METHODS INC 20338 PROGRESS DRIVE STRONGSVILLE, OH 44149		2b Employer Identification Number (EIN) 34-1085010	
		2c Sponsor's telephone number 216-476-8400	
		2d Business code (see instructions) 325100	
3a Plan administrator's name and address ☐ Same as Plan Sponsor Name ☐ Same as Plan Sponsor Address CHEMICAL METHODS INC 20338 PROGRESS DRIVE STRONGSVILLE, OH 44149		3b Administrator's EIN 34-1085010	
		3c Administrator's telephone number 216-476-8400	
4 If the name and/or EIN of the plan sponsor has changed since the last return/report filed for this plan, enter the name, EIN, and the plan number from the last return/report. a Sponsor's name		4b EIN	
		4c PN	
5a Total number of participants at the beginning of the plan year		5a	28
b Total number of participants at the end of the plan year.....		5b	33
c Number of participants with account balances as of the end of the plan year (defined benefit plans do not complete this item).....		5c	
6a Were all of the plan's assets during the plan year invested in eligible assets? (See instructions.)		☒ Yes ☐ No	
b Are you claiming a waiver of the annual examination and report of an independent qualified public accountant (IQPA) under 29 CFR 2520.104-46? (See instructions on waiver eligibility and conditions.).....		☒ Yes ☐ No	

If you answered "No" to either line 6a or line 6b, the plan cannot use Form 5500-SF and must instead use Form 5500.

Caution: A penalty for the late or incomplete filing of this return/report will be assessed unless reasonable cause is established.

Under penalties of perjury and other penalties set forth in the instructions, I declare that I have examined this return/report, including, if applicable, a Schedule SB or Schedule MB completed and signed by an enrolled actuary, as well as the electronic version of this return/report, and to the best of my knowledge and belief, it is true, correct, and complete.

SIGN HERE	Filed with authorized/valid electronic signature.	09/27/2013	DANIEL E. RICHARDS
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE			
	Signature of employer/plan sponsor	Date	Enter name of individual signing as employer or plan sponsor
Preparer's name (including firm name, if applicable) and address; include room or suite number (optional)			Preparer's telephone number (optional)

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	279861	409421
b Total plan liabilities	7b		
c Net plan assets (subtract line 7b from line 7a)	7c	279861	409421
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers	8a(1)	105000	
(2) Participants	8a(2)	0	
(3) Others (including rollovers)	8a(3)	0	
b Other income (loss)	8b	26706	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		131706
d Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d	0	
e Certain deemed and/or corrective distributions (see instructions)	8e	0	
f Administrative service providers (salaries, fees, commissions)	8f	2146	
g Other expenses	8g	0	
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		2146
i Net income (loss) (subtract line 8h from line 8c)	8i		129560
j Transfers to (from) the plan (see instructions)	8j	0	

Part IV Plan Characteristics

9a	If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions: 1A 1C 1G
b	If the plan provides welfare benefits, enter the applicable welfare feature codes from the List of Plan Characteristic Codes in the instructions:

Part V Compliance Questions

10 During the plan year:		Yes	No	Amount
a Was there a failure to transmit to the plan any participant contributions within the time period described in 29 CFR 2510.3-102? (See instructions and DOL's Voluntary Fiduciary Correction Program)	10a		X	
b Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.)	10b		X	
c Was the plan covered by a fidelity bond?	10c	X		300000
d Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	10d		X	
e Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service or other organization that provides some or all of the benefits under the plan? (See instructions.)	10e		X	
f Has the plan failed to provide any benefit when due under the plan?	10f		X	
g Did the plan have any participant loans? (If "Yes," enter amount as of year end.)	10g		X	
h If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	10h		X	
i If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3	10i			

Part VI Pension Funding Compliance

11	Is this a defined benefit plan subject to minimum funding requirements? (If "Yes," see instructions and complete Schedule SB (Form 5500) and line 11a below)	☒ Yes	☐ No
11a	Enter the amount from Schedule SB line 39	11a	0
12	Is this a defined contribution plan subject to the minimum funding requirements of section 412 of the Code or section 302 of ERISA? ..	☐ Yes	☒ No
(If "Yes," complete line 12a or lines 12b, 12c, 12d, and 12e below, as applicable.)			
a	If a waiver of the minimum funding standard for a prior year is being amortized in this plan year, see instructions, and enter the date of the letter ruling granting the waiver. Month Day Year		
If you completed line 12a, complete lines 3, 9, and 10 of Schedule MB (Form 5500), and skip to line 13.			
b	Enter the minimum required contribution for this plan year	12b	

c Enter the amount contributed by the employer to the plan for this plan year.....	12c	
d Subtract the amount in line 12c from the amount in line 12b. Enter the result (enter a minus sign to the left of a negative amount)	12d	
e Will the minimum funding amount reported on line 12d be met by the funding deadline?.....	☐ Yes ☐ No ☐ N/A	

Part VII Plan Terminations and Transfers of Assets

13a Has a resolution to terminate the plan been adopted in any plan year?	☐ Yes ☒ No
If "Yes," enter the amount of any plan assets that reverted to the employer this year	13a
b Were all the plan assets distributed to participants or beneficiaries, transferred to another plan, or brought under the control of the PBGC?.....	☐ Yes ☒ No
c If during this plan year, any assets or liabilities were transferred from this plan to another plan(s), identify the plan(s) to which assets or liabilities were transferred. (See instructions.)	
13c(1) Name of plan(s):	13c(2) EIN(s)

Part VIII Trust Information (optional)

14a Name of trust	14b Trust's EIN

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2012 This Form is Open to Public Inspection
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For calendar plan year 2012 or fiscal plan year beginning 01/01/2012 and ending 12/31/2012

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan <u>CHEMICAL METHODS, INC. CASH BALANCE PLAN</u>	B Three-digit plan number (PN) ▶ <u>003</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>CHEMICAL METHODS INC</u>	D Employer Identification Number (EIN) <u>34-1085010</u>
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☒ 100 or fewer ☐ 101-500 ☐ More than 500

Part I	Basic Information																								
1	Enter the valuation date: Month <u>12</u> Day <u>31</u> Year <u>2012</u>																								
2	Assets: <table><tr><td>a Market value</td><td>2a</td><td><u>304421</u></td></tr><tr><td>b Actuarial value</td><td>2b</td><td><u>304421</u></td></tr></table>	a Market value	2a	<u>304421</u>	b Actuarial value	2b	<u>304421</u>																		
a Market value	2a	<u>304421</u>																							
b Actuarial value	2b	<u>304421</u>																							
3	Funding target/participant count breakdown: <table><tr><td></td><td>(1) Number of participants</td><td>(2) Funding Target</td></tr><tr><td>a For retired participants and beneficiaries receiving payment.....</td><td>3a</td><td><u>0</u></td></tr><tr><td>b For terminated vested participants.....</td><td>3b</td><td><u>0</u></td></tr><tr><td>c For active participants:</td><td></td><td></td></tr><tr><td> (1) Non-vested benefits.....</td><td>3c(1)</td><td><u>558</u></td></tr><tr><td> (2) Vested benefits.....</td><td>3c(2)</td><td><u>186344</u></td></tr><tr><td> (3) Total active</td><td>3c(3)</td><td><u>186902</u></td></tr><tr><td>d Total</td><td>3d</td><td><u>186902</u></td></tr></table>		(1) Number of participants	(2) Funding Target	a For retired participants and beneficiaries receiving payment.....	3a	<u>0</u>	b For terminated vested participants.....	3b	<u>0</u>	c For active participants:			(1) Non-vested benefits.....	3c(1)	<u>558</u>	(2) Vested benefits.....	3c(2)	<u>186344</u>	(3) Total active	3c(3)	<u>186902</u>	d Total	3d	<u>186902</u>
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(3) Total active	3c(3)	<u>186902</u>																							
d Total	3d	<u>186902</u>																							
4	If the plan is in at-risk status, check the box and complete lines (a) and (b) ☐ <table><tr><td>a Funding target disregarding prescribed at-risk assumptions</td><td>4a</td><td></td></tr><tr><td>b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor</td><td>4b</td><td></td></tr></table>	a Funding target disregarding prescribed at-risk assumptions	4a		b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b																			
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b Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor	4b																								
5	Effective interest rate	5	<u>6.86 %</u>																						
6	Target normal cost.....	6	<u>108366</u>																						

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE		<u>09/17/2013</u>
Signature of actuary		Date
<u>WILLIAM T. WILSON</u>		<u>11-04249</u>
Type or print name of actuary		Most recent enrollment number
<u>TRINITY PENSION CONSULTANTS</u>		<u>330-668-3747</u>
Firm name		Telephone number (including area code)
<u>202 MONTROSE WEST AVE. #290</u> <u>AKRON, OH 44321</u>		
Address of the firm		

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

For Paperwork Reduction Act Notice and OMB Control Numbers, see the instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2012
v. 120126

Part II Beginning of Year Carryover Prefunding Balances		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	0
10	Interest on line 9 using prior year's actual return of _____%		
11	Prior year's excess contributions to be added to prefunding balance:		
	a Present value of excess contributions (line 38a from prior year)		0
	b Interest on (a) using prior year's effective interest rate of <u>5.13</u> % except as otherwise provided (see instructions)		0
	c Total available at beginning of current plan year to add to prefunding balance		0
	d Portion of (c) to be added to prefunding balance		0
12	Other reductions in balances due to elections or deemed elections	0	0
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	0

Part III Funding Percentages			
14	Funding target attainment percentage	14	162.87 %
15	Adjusted funding target attainment percentage	15	162.87 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	97.65 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage	17	%

Part IV Contributions and Liquidity Shortfalls					
18 Contributions made to the plan for the plan year by employer(s) and employees:					
(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
02/21/2013	105000	0			
			Totals ►	18(b)	105000
				18(c)	0

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:		
a Contributions allocated toward unpaid minimum required contributions from prior years.	19a	0
b Contributions made to avoid restrictions adjusted to valuation date	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date	19c	0
20 Quarterly contributions and liquidity shortfalls:		
a Did the plan have a "funding shortfall" for the prior year?	☒ Yes ☐ No	
b If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	☒ Yes ☐ No	
c If line 20a is "Yes," see instructions and complete the following table as applicable:		
Liquidity shortfall as of end of quarter of this plan year		
(1) 1st	(2) 2nd	(3) 3rd

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 5.54%	2nd segment: 6.85%	3rd segment: 7.52 %	☐ N/A, full yield curve used
b Applicable month (enter code).....				21b 0
22 Weighted average retirement age				22 62
23 Mortality table(s) (see instructions) ☒ Prescribed - combined ☐ Prescribed - separate ☐ Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.....	☐ Yes ☒ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6)	31a	108366	
b Excess assets, if applicable, but not greater than line 31a	31b	108366	
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment	0	0	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)...	34	0	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	0	0
36 Additional cash requirement (line 34 minus line 35)	36	0	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c)	37	0	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	0	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years.....	40	0	

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years ☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011		
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		

CHEMICAL METHODS, INC.
CASH BALANCE PLAN

Assumptions and Methods used in Valuation
As of December 31, 2012

Assumption	For Funding	Per Plan	For 417(e)	For Recommended
Interest Discount Rates	First Segment Rate 5.54%	Preretirement 5.00%	First Segment Rate 0.96%	Preretirement 5.00%
	Second Segment Rate 6.85%	Postretirement 5.00%	Second Segment Rate 3.57%	Postretirement 5.00%
	Third Segment Rate 7.52%		Third Segment Rate 4.58%	
Effective rate	6.86%			
Maximum Deduction Discount Rates	First Segment Rate 1.66%			
	Second Segment Rate 4.47%	Postretirement 5.00%		
	Third Segment Rate 5.52%			
Effective rate	4.48%			
Turnover	None	N/A	N/A	None
Preretirement Mortality	None	None	None	None
Disability	None	N/A	N/A	None
Future Salary Increases	None	N/A	N/A	None
Assumed Retirement	Normal Retirement	N/A	N/A	Normal Retirement
Assumed Benefit Form	Percent Assumed Plan Normal Form 0% Percent Assumed Lump Sum 100% Percent Assumed Life Only 0% Percent Assumed Joint and Survivor 0%			
Postretirement Mortality	2012417e	2012417e	2012417e	2012417e
Actuarial Value of Assets	Market Value	N/A	N/A	Market Value

SCHEDULE SB (Form 5500) Department of the Treasury Internal Revenue Service Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	Single-Employer Defined Benefit Plan Actuarial Information This schedule is required to be filed under section 104 of the Employee Retirement Income Security Act of 1974 (ERISA) and section 6059 of the Internal Revenue Code (the Code). ▶ File as an attachment to Form 5500 or 5500-SF.	OMB No. 1210-0110 2012 This Form is Open to Public Inspection
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For calendar plan year 2012 or fiscal plan year beginning 01/01/2012 and ending 12/31/2012

▶ **Round off amounts to nearest dollar.**

▶ **Caution:** A penalty of \$1,000 will be assessed for late filing of this report unless reasonable cause is established.

A Name of plan Chemical Methods, Inc. Cash Balance Plan	B Three-digit plan number (PN) ▶ 003
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF CHEMICAL METHODS INC	D Employer Identification Number (EIN) 34-1085010
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B	F Prior year plan size: ☒ 100 or fewer ☐ 101-500 ☐ More than 500

Part I	Basic Information
1	Enter the valuation date: Month 12 Day 31 Year 2012
2	Assets:
a	Market value 2a 304421
b	Actuarial value 2b 304421
3	Funding target/participant count breakdown:
a	For retired participants and beneficiaries receiving payment 3a 0 0
b	For terminated vested participants 3b 0 0
c	For active participants:
(1)	Non-vested benefits 3c(1) 558
(2)	Vested benefits 3c(2) 186344
(3)	Total active 3c(3) 33 186902
d	Total 3d 33 186902
4	If the plan is in at-risk status, check the box and complete lines (a) and (b) ☐
a	Funding target disregarding prescribed at-risk assumptions 4a
b	Funding target reflecting at-risk assumptions, but disregarding transition rule for plans that have been in at-risk status for fewer than five consecutive years and disregarding loading factor 4b
5	Effective interest rate 5 6.86%
6	Target normal cost 6 108366

Statement by Enrolled Actuary

To the best of my knowledge, the information supplied in this schedule and accompanying schedules, statements and attachments, if any, is complete and accurate. Each prescribed assumption was applied in accordance with applicable law and regulations. In my opinion, each other assumption is reasonable (taking into account the experience of the plan and reasonable expectations) and such other assumptions, in combination, offer my best estimate of anticipated experience under the plan.

SIGN HERE	William T. Wilson Digitally signed by William T. Wilson DN: cn=William T. Wilson, o=Trinity Pension, ou, email=willw@trinitypension.com, c=US Date: 2013.09.17 14:31:32 -04'00'	09/17/2013
Signature of actuary		Date
William T. Wilson		1104249
Type or print name of actuary		Most recent enrollment number
Trinity Pension Consultants		330-668-3747
Firm name		Telephone number (including area code)
202 Montrose West Ave. #290		
Akron OH 44321		
Address of the firm		

If the actuary has not fully reflected any regulation or ruling promulgated under the statute in completing this schedule, check the box and see instructions ☐

For Paperwork Reduction Act Notice and OMB Control Numbers, see the instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2012
v. 120126

Part II Beginning of Year Carryover Prefunding Balances

		(a) Carryover balance	(b) Prefunding balance
7	Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	0	0
8	Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	0	0
9	Amount remaining (line 7 minus line 8)	0	0
10	Interest on line 9 using prior year's actual return of _____%.....		
11	Prior year's excess contributions to be added to prefunding balance:		
a	Present value of excess contributions (line 38a from prior year)		0
b	Interest on (a) using prior year's effective interest rate of <u>5.13</u> % except as otherwise provided (see instructions).....		0
c	Total available at beginning of current plan year to add to prefunding balance		0
d	Portion of (c) to be added to prefunding balance		0
12	Other reductions in balances due to elections or deemed elections	0	0
13	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12)	0	0

Part III	Funding Percentages
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14	Funding target attainment percentage.....	14	162.87 %
15	Adjusted funding target attainment percentage	15	162.87 %
16	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement.....	16	97.65 %
17	If the current value of the assets of the plan is less than 70 percent of the funding target, enter such percentage.....	17	%

Part IV Contributions and liquidity shortfalls

18 Contributions made to the plan for the plan year by employer(s) and employees:

(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees	(a) Date (MM-DD-YYYY)	(b) Amount paid by employer(s)	(c) Amount paid by employees
02/21/2013	105000	0			

19 Discounted employer contributions – see instructions for small plan with a valuation date after the beginning of the year:

a Contributions allocated toward unpaid minimum required contributions from prior years.....	19a	0
b Contributions made to avoid restrictions adjusted to valuation date.....	19b	0
c Contributions allocated toward minimum required contribution for current year adjusted to valuation date.....	19c	0

20 Quarterly contributions and liquidity shortfalls:

- a** Did the plan have a "funding shortfall" for the prior year? ☒ Yes ☐ No
- b** If 20a is "Yes," were required quarterly installments for the current year made in a timely manner? ☒ Yes ☐ No
- c** If 20a is "Yes," see instructions and complete the following table as applicable:

Liquidity shortfall as of end of quarter of this plan year			
(1) 1st	(2) 2nd	(3) 3rd	(4) 4th

Part V Assumptions Used to Determine Funding Target and Target Normal Cost

21 Discount rate:				
a Segment rates:	1st segment: 5.54%	2nd segment: 6.85%	3rd segment: 7.52%	☐ N/A, full yield curve used
b Applicable month (enter code).....				21b 0
22 Weighted average retirement age				22 62
23 Mortality table(s) (see instructions) ☒ Prescribed - combined ☐ Prescribed - separate ☐ Substitute				

Part VI Miscellaneous Items

24 Has a change been made in the non-prescribed actuarial assumptions for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
26 Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.	☐ Yes ☒ No
27 If the plan is subject to alternative funding rules, enter applicable code and see instructions regarding attachment.....	27

Part VII Reconciliation of Unpaid Minimum Required Contributions For Prior Years

28 Unpaid minimum required contributions for all prior years	28	0
29 Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a).....	29	0
30 Remaining amount of unpaid minimum required contributions (line 28 minus line 29)	30	0

Part VIII Minimum Required Contribution For Current Year

31 Target normal cost and excess assets (see instructions):			
a Target normal cost (line 6).....	31a	108366	
b Excess assets, if applicable, but not greater than line 31a	31b	108366	
32 Amortization installments:	Outstanding Balance	Installment	
a Net shortfall amortization installment.....	0	0	
b Waiver amortization installment	0	0	
33 If a waiver has been approved for this plan year, enter the date of the ruling letter granting the approval (Month _____ Day _____ Year _____) and the waived amount	33		
34 Total funding requirement before reflecting carryover/prefunding balances (lines 31a - 31b + 32a + 32b - 33)...	34	0	
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement.....	0	0	0
36 Additional cash requirement (line 34 minus line 35).....	36	0	
37 Contributions allocated toward minimum required contribution for current year adjusted to valuation date (line 19c).....	37	0	
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)	38a	0	
b Portion included in line 38a attributable to use of prefunding and funding standard carryover balances	38b	0	
39 Unpaid minimum required contribution for current year (excess, if any, of line 36 over line 37)	39	0	
40 Unpaid minimum required contributions for all years	40	0	

Part IX Pension Funding Relief Under Pension Relief Act of 2010 (See Instructions)

41 If an election was made to use PRA 2010 funding relief for this plan:			
a Schedule elected	☐ 2 plus 7 years ☐ 15 years		
b Eligible plan year(s) for which the election in line 41a was made	☐ 2008 ☐ 2009 ☐ 2010 ☐ 2011		
42 Amount of acceleration adjustment	42		
43 Excess installment acceleration amount to be carried over to future plan years	43		

CHEMICAL METHODS, INC.
CASH BALANCE PLAN

Summary of Major Plan Provisions
As of December 31, 2012

Plan effective date	January 1, 2010		
Plan Year	January 1 to December 31		
Eligibility	Employees are eligible to enter on the day of that is coincident with or next following the date the participant is hired		
Normal Retirement	All participants are eligible to retire upon the later of attainment of age 62 and 5 years of participation		
Normal Retirement Benefit	Upon retirement a participant will be entitled to a benefit payable in the normal form which is equal to the following:		
	Group	% Comp	Flat \$
	2	0.00%	\$150,000
	3	0.00%	\$100
	The benefit is then the actuarial equivalent of the hypothetical account balance at normal retirement, accumulated with hypothetical interest at the rate of 5% per year		
	In no event is the benefit greater than 100% of final average compensation Reduced for years of service less than 10		
	Credited years are measured as plan years starting with the plan year of hire. Only years during which a participant is credited with at least 1 hours of service are counted.		
	or greater than \$16666.67 Reduced for years of participation less than 10		
	Credited years are measured as plan years starting with the plan year of entry. Only years during which a participant is credited with at least 1 hours of service are counted.		
	with the dollar limit reduced for payment prior to 62, and increased for payment after 65		
Normal Form	A monthly benefit payable for the life of the participant		
Accrued Benefit	The accrued benefit is the benefit based upon service and compensation to the date of determination		
Termination Benefit	Upon termination for any reason other than death, disability or retirement, a participant shall be entitled to a portion of their accrued benefit, in accordance with the following schedule:		
	Years of Credit	Percent Vested	
	1	0	
	2	0	
	3	100	
	Credited years are measured as plan years starting with the plan year of hire. Only years during which a participant is credited with at least 1000 hours of service are counted. Service excludes periods before the plan effective date. Service excludes periods prior to January 1, 2010.		