

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 <div style="border: 1px solid black; text-align: center; padding: 5px; font-weight: bold; font-size: 1.2em;">2011</div> This Form is Open to Public Inspection
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Part I Annual Report Identification Information			
For calendar plan year 2011 or fiscal plan year beginning 01/01/2011 and ending 12/31/2011			
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 RETIREMENT PLAN FOR HOURLY PAID BARGAINING UNIT EMPLOYEES OF WITCO CORPORATION MARSHALL		1b Three-digit plan number (PN) ▶	041
		1c Effective date of plan 01/01/1984	
2a Plan sponsor's name and address; include room or suite number (employer, if for a single-employer plan) CHEMTURA CORPORATION 199 BENSON RD MIDDLEBURY, CT 06749		2b Employer Identification Number (EIN) 52-2183153 2c Sponsor's telephone number 800-573-3070 2d Business code (see instructions) 325100	
3a Plan administrator's name and address (if same as plan sponsor, enter "Same") CHEMTURA CORPORATION 199 BENSON RD MIDDLEBURY, CT 06749		3b Administrator's EIN 52-2183153 3c Administrator's telephone number 800-573-3070	
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	59
b Total number of participants at the end of the plan year.....		5b	57
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 6a or 6b, the plan cannot use Form 5500-SF and must instead use Form 5500.			

Part III Financial Information				
7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year	
a Total plan assets	7a	2501361	2535811	
b Total plan liabilities	7b			
c Net plan assets (subtract line 7b from line 7a).....	7c	2501361	2535811	
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total	
a Contributions received or receivable from:				
(1) Employers	8a(1)			
(2) Participants	8a(2)			
(3) Others (including rollovers).....	8a(3)			
b Other income (loss)	8b	271462		
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		271462	
d Benefits paid (including direct rollovers and insurance premiums to provide benefits).....	8d	233383		
e Certain deemed and/or corrective distributions (see instructions)....	8e			
f Administrative service providers (salaries, fees, commissions)	8f	3629		
g Other expenses.....	8g			
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		237012	
i Net income (loss) (subtract line 8h from line 8c).....	8i		34450	
j Transfers to (from) the plan (see instructions)	8j			

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 1D 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**

	Yes	No	Amount
10 During the plan year:			
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)		X	
b Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.)		X	
c Was the plan covered by a fidelity bond?	X		10000000
d Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?		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.)		X	
f Has the plan failed to provide any benefit when due under the plan?		X	
g Did the plan have any participant loans? (If "Yes," enter amount as of year end.)		X	
h If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)			
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			

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)). ☒ Yes ☐ No

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 12a or 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?

Part VII Plan Terminations and Transfers of Assets

13a Has a resolution to terminate the plan been adopted in any plan year?

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?

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)	13c(3) PN(s)

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.	10/09/2012	RUTH CUSACK
	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

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 2011 This Form is Open to Public Inspection
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For calendar plan year 2011 or fiscal plan year beginning 01/01/2011 and ending 12/31/2011

▶ **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>RETIREMENT PLAN FOR HOURLY PAID BARGAINING UNIT EMPLOYEES OF WITCO CORPORATION MARSHALL</u>	B Three-digit plan number (PN) ▶ <u>041</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>CHEMTURA CORPORATION</u>	D Employer Identification Number (EIN) <u>52-2183153</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>01</u> Day <u>01</u> Year <u>2011</u>
2	Assets:
a	Market value 2a <u>2501361</u>
b	Actuarial value 2b <u>2365639</u>
3	Funding target/participant count breakdown:
	(1) Number of participants (2) Funding Target
a	For retired participants and beneficiaries receiving payment 3a <u>31</u> <u>1810915</u>
b	For terminated vested participants 3b <u>30</u> <u>866494</u>
c	For active participants:
(1)	Non-vested benefits 3c(1) <u>0</u>
(2)	Vested benefits 3c(2) <u>0</u>
(3)	Total active 3c(3) <u>0</u>
d	Total 3d <u>61</u> <u>2677409</u>
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 <u>6.25 %</u>
6	Target normal cost 6 <u>8000</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>10/08/2012</u>
Signature of actuary	Date
<u>ALICE PEGEL STUART, F.S.A.</u>	<u>11-05939</u>
Type or print name of actuary	Most recent enrollment number
<u>TOWERS WATSON PENNSYLVANIA INC.</u>	<u>203-326-5400</u>
Firm name	Telephone number (including area code)
<u>1 STAMFORD PLAZA</u> <u>263 TRESSER BLVD.</u> <u>STAMFORD, CT 06901-3226</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) 2011
v.012611

Part II Beginning of year carryover and prefunding balances		
	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	646025	0
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	11000	0
9 Amount remaining (line 7 minus line 8)	635025	0
10 Interest on line 9 using prior year's actual return of <u>14.88</u> %	94492	0
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38 from prior year)		0
b Interest on (a) using prior year's effective rate of <u>6.64</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.....		
12 Other reductions in balances due to elections or deemed elections	505806	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	223711	0

Part III Funding percentages		
14 Funding target attainment percentage.....	14	80.00 %
15 Adjusted funding target attainment percentage.....	15	80.00 %
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	98.08 %
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
Totals ►			18(b)	0	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 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
0	0	0
		(4) 4th 0

Part V Assumptions used to determine funding target and target normal cost

21 Discount rate:				
a Segment rates:	1st segment: 3.78%	2nd segment: 6.31%	3rd segment: 6.57 %	☐ N/A, full yield curve used
b Applicable month (enter code)				21b 4
22 Weighted average retirement age				22 61
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 eligible for (and is using) 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	8000										
b Excess assets, if applicable, but not greater than 31a	31b	0										
32 Amortization installments:	<table border="1"> <thead> <tr> <th></th> <th>Outstanding Balance</th> <th>Installment</th> </tr> </thead> <tbody> <tr> <td>a Net shortfall amortization installment</td> <td>535481</td> <td>88102</td> </tr> <tr> <td>b Waiver amortization installment</td> <td>0</td> <td>0</td> </tr> </tbody> </table>				Outstanding Balance	Installment	a Net shortfall amortization installment	535481	88102	b Waiver amortization installment	0	0
	Outstanding Balance	Installment										
a Net shortfall amortization installment	535481	88102										
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	96102										
		Carryover balance	Prefunding balance									
35 Balances elected for use to offset funding requirement.....		96102	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											
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 a shortfall amortization base is being amortized pursuant to an alternative amortization schedule:			
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		

Assumptions and methods for contribution purposes

Interest rate basis:

- ▶ Applicable month
- ▶ Yield curve basis

September 2010

Segment Rates

Interest rates:

- | | |
|---------------------------|-------|
| ▶ First segment rate | 3.78% |
| ▶ Second segment rate | 6.31% |
| ▶ Third segment rate | 6.57% |
| ▶ Effective interest rate | 6.25% |

Annual rates of increase:

- | | |
|-------------------------------------|-------|
| ▶ Compensation | 4.00% |
| ▶ Future Social Security wage bases | 3.50% |
| ▶ Statutory limits on compensation | 3.00% |

Chemtura Corporation
Retirement Plan for Hourly Paid Bargaining Unit Employees of Witco Corporation (Marshall, TX)
Schedule SB, Part V – Statement of Actuarial Assumptions/Methods
EIN / PN: 52-2183153 / 041

Inclusion date The valuation date coincident with or next following the date on which the employee becomes a participant

New or rehired employees It was assumed there will be no new or rehired employees.

Mortality

- ▶ Healthy Separate rates for non-annuitants (based on RP-2000 “Employees” table without collar or amount adjustments, projected to 2026 using Scale AA) and annuitants (based on RP-2000 “Healthy Annuitants” table without collar or amount adjustments, projected to 2018 using Scale AA)
- ▶ Disabled Separate rates for non-annuitants (based on RP-2000 “Employees” table without collar or amount adjustments, projected to 2026 using Scale AA) and annuitants (based on RP-2000 “Healthy Annuitants” table without collar or amount adjustments, projected to 2018 using Scale AA)

Termination Rates varying by age

Representative Termination Rates

Percentage leaving during the year	
Attained Age	Rate
20	10.0%
25	10.0%
30	8.0%
35	7.0%
40	6.0%
45	5.0%
50	4.5%
55	0.0%
60	0.0%
65	0.0%

No schedule was used for Gretna Hourly, Memphis Hourly, OSi Retirement, Newark Hourly, Nutley Hourly, Uniroyal Plan A, and Marshall Hourly as there are no active participants in these locations.

Chemtura Corporation
Retirement Plan for Hourly Paid Bargaining Unit Employees of Witco Corporation (Marshall, TX)
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Disability

Rates varying by age and location

Representative Disability Rates

Percentage becoming disabled during the year		
Age	Chemtura Pension and Perth Amboy Hourly	Uniroyal Plan B and Uniroyal Plan C
25	0.09%	0.206%
30	0.10%	0.203%
35	0.13%	0.211%
40	0.20%	0.237%
45	0.33%	0.289%
50	0.58%	0.380%
55	1.02%	0.529%
60	1.60%	0.762%
65	2.28%	0.000%

No disability rates are assumed for the Great Lakes location.

No schedule was used for Gretna Hourly, Memphis Hourly, OSi Retirement, Newark Hourly, Nutley Hourly, Uniroyal Plan A, and Marshall Hourly as there are no active participants in these locations.

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Retirement Plan for Hourly Paid Bargaining Unit Employees of Witco Corporation (Marshall, TX)
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Retirement

Rates varying by age, average age 61

For purposes of determining the Funding Target and Target Normal Cost (both disregarding at-risk assumptions), the rates at which participants retire by age are shown below.

Percentage retiring during the year	
Age	Rate
55	8.0%
56	10.0%
57	10.0%
58	10.0%
59	10.0%
60	15.0%
61	15.0%
62	22.0%
63	20.0%
64	20.0%
65	30.0%
66	40.0%
67	30.0%
68	30.0%
69	30.0%
70	100.0%

Benefit commencement date:

- ▶ Preretirement death benefit The later of the death of the active participant or the date the participant would have attained age 55
- ▶ Deferred vested benefit The later of age 65 or termination of employment; age 60 for Morgantown; age 62 for Perth Amboy Hourly; age 62 for Chemtura Pension if service at termination is 25 years or greater
- ▶ Disability benefit The later of age 65 or incidence of disablement; age 50 and 15 years of service for Chemtura Pension and Perth Amboy Hourly; 15 years of service for Morgantown, Mapleton, and Uniroyal Plan C
- ▶ Retirement benefit Upon termination of employment

Chemtura Corporation
Retirement Plan for Hourly Paid Bargaining Unit Employees of Witco Corporation (Marshall, TX)
Schedule SB, Part V – Statement of Actuarial Assumptions/Methods
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Form of payment	<u>Type of Annuity</u>	<u>Percent Electing</u>
	Life Annuity	100%
	25% Joint and Survivor	0%
	50% Joint and Survivor	0%
	66-2/3% Joint and Survivor	0%
	75% Joint and Survivor	0%
	100% Joint and Survivor	0%
	5 Year Certain and Life	0%
	10 Year Certain and Life	0%
	5 Year Certain and Life & 100% Joint and Survivor	0%
	5 Year Certain and Life & 50% Joint and Survivor	0%
	5 Year Certain with Extended 5 Year Certain and Life	0%
	5 Year Certain with Extended 10 Year Certain and Life	0%
	5 Year Certain with Extended 15 Year Certain and Life	0%
	Social Security Level Income Option	0%
Percent married	85% of males; 75% of females. Used to value pre-retirement surviving spouse benefits and in determining the optional forms expected to be elected at commencement.	
Spouse age	Wife three years younger than husband	
Covered pay	The base rate of pay on the valuation date	
Administrative expenses	\$8,000	
Valuation date	First day of plan year	
Funding target	Present value of accrued benefits	
Target normal cost	Present value of benefits expected to accrue during plan year plus plan-related expenses expected to be paid from plan assets during plan year	

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Retirement Plan for Hourly Paid Bargaining Unit Employees of Witco Corporation (Marshall, TX)
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Actuarial value of assets

Average of the fair market value of assets on the valuation date and the two immediately preceding valuation dates, adjusted for contributions, benefits, administrative expenses and expected earnings (with such expected earnings limited as described in IRS Notice 2009-22). The average asset value must be within 10% of market value, including discounted contributions receivable (discounted using the effective interest rate for the 2010 plan year).

The method of computing the actuarial value of assets complies with rules governing the calculation of such values under the Pension Protection Act of 2006 (PPA). These rules produce smoothed values that reflect the underlying market value of plan assets but fluctuate less than the market value. As a result, the actuarial value of assets will be lower than the market value in some years and greater in other years. However, over the long term under PPA's smoothing rules, the method has a significant bias to produce an actuarial value of assets that is below the market value of assets.

**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

2011**This Form is Open to Public
Inspection**

For calendar plan year 2011 or fiscal plan year beginning 01/01/2011 and ending 12/31/2011

▶ **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 RETIREMENT PLAN FOR HOURLY PAID BARGAINING UNIT EMPLOYEES OF WITCO CORPORATION MARSHALL	B Three-digit plan number (PN) ▶ 041
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF CHEMTURA CORPORATION	D Employer Identification Number (EIN) 52-2183153
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>01</u> Day <u>01</u> Year <u>2011</u>		
2 Assets:		
a Market value	2a	2501361
b Actuarial value	2b	2365639
3 Funding target/participant count breakdown:	(1) Number of participants	(2) Funding Target
a For retired participants and beneficiaries receiving payment	3a 31	1810915
b For terminated vested participants	3b 30	866494
c For active participants:		
(1) Non-vested benefits	3c(1)	0
(2) Vested benefits	3c(2)	0
(3) Total active	3c(3) 0	0
d Total	3d 61	2677409
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	6.25 %
6 Target normal cost	6	8000

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	ALICE PEGEL STUART 	10/08/2012
Signature of actuary		Date
ALICE PEGEL STUART, F.S.A.		11-05939
Type or print name of actuary		Most recent enrollment number
TOWERS WATSON PENNSYLVANIA INC.		203-326-5400
Firm name		Telephone number (including area code)
1 STAMFORD PLAZA 263 TRESSER BLVD. STAMFORD CT 06901-3226		
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) 2011
v.012611

Part II Beginning of year carryover and prefunding balances

	(a) Carryover balance	(b) Prefunding balance
7 Balance at beginning of prior year after applicable adjustments (line 13 from prior year)	646025	0
8 Portion elected for use to offset prior year's funding requirement (line 35 from prior year)	11000	0
9 Amount remaining (line 7 minus line 8)	635025	0
10 Interest on line 9 using prior year's actual return of <u>14.88</u> %	94492	0
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38 from prior year)		0
b Interest on (a) using prior year's effective rate of <u>6.64</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		
12 Other reductions in balances due to elections or deemed elections	505806	0
13 Balance at beginning of current year (line 9 + line 10 + line 11d - line 12)	223711	0

Part III Funding percentages

14 Funding target attainment percentage	14	80.00 %
15 Adjusted funding target attainment percentage	15	80.00 %
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	98.08 %
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
Totals ▶			18(b)	0	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 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
0	0	0	0

Part V Assumptions used to determine funding target and target normal cost

21 Discount rate:			
a Segment rates:	1st segment: 3.78 %	2nd segment: 6.31 %	3rd segment: 6.57 %
			☐ N/A, full yield curve used
b Applicable month (enter code)			21b 4
22 Weighted average retirement age			22 61
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 eligible for (and is using) 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	8000										
b Excess assets, if applicable, but not greater than 31a	31b	0										
32 Amortization installments:	<table border="1"> <thead> <tr> <th></th> <th>Outstanding Balance</th> <th>Installment</th> </tr> </thead> <tbody> <tr> <td>a Net shortfall amortization installment</td> <td>535481</td> <td>88102</td> </tr> <tr> <td>b Waiver amortization installment</td> <td>0</td> <td>0</td> </tr> </tbody> </table>				Outstanding Balance	Installment	a Net shortfall amortization installment	535481	88102	b Waiver amortization installment	0	0
	Outstanding Balance	Installment										
a Net shortfall amortization installment	535481	88102										
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	96102										
	Carryover balance	Prefunding balance	Total balance									
35 Balances elected for use to offset funding requirement	96102	0	96102									
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											
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 a shortfall amortization base is being amortized pursuant to an alternative amortization schedule:			
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		

Schedule SB, Line 22 - Description of Weighted Average Retirement Age
Retirement Plan for Hourly Paid Bargaining Unit Employees of Witco Corporation (Marshall, TX)

EIN: 52-2183153 Plan Number: 041

<u>Age</u>	<u>Rate of Retirement</u>	<u>Population Survivorship</u>	<u>Number Retiring</u>	<u>Weighted Retirement by Age</u>	<u>Average Retirement Age</u>
55	0.0800	100,000	8,000	440,000	
56	0.1000	92,000	9,200	515,200	
57	0.1000	82,800	8,280	471,960	
58	0.1000	74,520	7,452	432,216	
59	0.1000	67,068	6,707	395,701	
60	0.1500	60,361	9,054	543,251	
61	0.1500	51,307	7,696	469,459	
62	0.2200	43,611	9,594	594,854	
63	0.2000	34,017	6,803	428,609	
64	0.2000	27,213	5,443	348,330	
65	0.3000	21,771	6,531	424,527	
66	0.4000	15,239	6,096	402,321	
67	0.3000	9,144	2,743	183,787	
68	0.3000	6,401	1,920	130,571	
69	0.3000	4,480	1,344	92,744	
70	1.0000	<u>3,136</u>	<u>3,136</u>	<u>219,539</u>	
Total		693,068	100,000	6,093,068	60.9

Plan Provisions – Marshall Hourly

Plan name: Retirement Plan for Hourly Paid Bargaining Unit Employees of Witco Corporation (Marshall, Texas)

Type of plan: Career Pay
Closed group of former employees

Normal form: Life annuity

Membership service: The January 1 or July 1 following the attainment of age 21 and the completion of 1 year of vesting service.
This location was sold in 2007.

Credited service: From date of membership.

Vesting service: A year of vesting is credited for each year in which the employee completes 1,000 hours of service.

Pension earnings: Base pay

Accrued benefit: For each year after 1/1/84, 1.0% of earnings between \$600 and \$3,000 and 1.5% of earnings over \$3,000.

Benefit	Age	Vest Svc	Description
Normal retirement:	65		Accrued benefit payable immediately.
Early:	55		Accrued benefit reduced 5/9% for each month from 60 to 65 and 5/18% for each month from 55 to 60.
Disability:*	50 and	15	Accrued benefit payable immediately.
Postponed:	>65		Accrued benefit payable immediately.
Vesting:	55 or	5	Accrued benefit payable unreduced at 65. For commencement prior to age 65, use early retirement reductions.
Pre-ret death:**	55 or	5	If married, reduced 50% joint & survivor early retirement benefit if attained age 55 or 50% joint & survivor benefit for all others reduced to be payable at 55.

* Participant must be disabled for at least 6 months.

** Participants may elect a designated beneficiary option in lieu of the pre-retirement death benefit described above.

Future Plan Changes

No future plan changes were recognized in determining pension cost or in determining minimum and maximum contributions. Towers Watson is not aware of any future plan changes which are required to be reflected.

Changes in Benefits Valued Since Prior Year

There have been no changes in benefits valued since the prior year.

Schedule SB, line 32 - Schedule of Amortization Bases

Plan Name	Employees of Witco Corporation (Marshall, TX)
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Plan Sponsor's Name	Chemtura Corporation
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[illegible]