

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 2016 This Form is Open to Public Inspection	
Part I Annual Report Identification Information					
For calendar plan year 2016 or fiscal plan year beginning 01/01/2016 and ending 12/31/2016					
A This return/report is for:		☒ a single-employer plan ☐ a multiple-employer plan (not multiemployer) (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.) ☐ a one-participant plan ☐ a foreign 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 BOGE N.A. PENSION PLAN		1b Three-digit plan number (PN) ▶		002	
		1c Effective date of plan		06/01/1997	
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) Z F NORTH AMERICA, INC. 15811 CENTENNIAL DRIVE NORTHVILLE, MI 48168		2b Employer Identification Number (EIN)		61-1462969	
		2c Sponsor's telephone number		734-207-2843	
		2d Business code (see instructions)		339900	
3a Plan administrator's name and address ☒ Same as Plan Sponsor.		3b Administrator's EIN			
		3c Administrator's telephone number			
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.		4b EIN			
a Sponsor's name		4c PN			
5a Total number of participants at the beginning of the plan year		5a		81	
b Total number of participants at the end of the plan year		5b		0	
c Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)		5c			
d(1) Total number of active participants at the beginning of the plan year		5d(1)		0	
d(2) Total number of active participants at the end of the plan year		5d(2)		0	
e Number of participants that terminated employment during the plan year with accrued benefits that were less than 100% vested		5e		0	
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.	01/24/2017	CONNIE RIGHTMER		
	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)				Preparer's telephone number	

- 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.**
- c** If the plan is a defined benefit plan, is it covered under the PBGC insurance program (see ERISA section 4021)? ☒ Yes ☐ No ☐ Not determined

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	2961597	0
b Total plan liabilities	7b	0	0
c Net plan assets (subtract line 7b from line 7a)	7c	2961597	0
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	165755	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		165755
d Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d	888072	
e Certain deemed and/or corrective distributions (see instructions) ..	8e		
f Administrative service providers (salaries, fees, commissions)	8f	33666	
g Other expenses	8g		
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		921738
i Net income (loss) (subtract line 8h from line 8c)	8i		-755983
j Transfers to (from) the plan (see instructions)	8j	-2205614	

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:
11 3D
- 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	N/A	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			500000
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				
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 unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40	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)
TRW AUTOMOTIVE SALARIED PENSION PLAN	14-1857697
	13c(3) PN(s)
	002

Part VIII Trust Information

14a Name of trust	14b Trust's EIN
14c Name of trustee or custodian	14d Trustee's or custodian's telephone number

Part IX IRS Compliance Questions

15a Is the plan a 401(k) plan? If "No," skip b.	☐ Yes ☐ No
15b How did the plan satisfy the nondiscrimination requirements for employee deferrals under section 401(k)(3) for the plan year? Check all that apply:	☐ Design-based safe harbor ☐ "Prior year" ADP test
	☐ "Current year" ADP test ☐ N/A
16a What testing method was used to satisfy the coverage requirements under section 410(b) for the plan year? Check all that apply:	☐ Ratio percentage test ☐ Average benefit test ☐ N/A
16b Did the plan satisfy the coverage and nondiscrimination requirements of sections 410(b) and 401(a)(4) for the plan year by combining this plan with any other plan under the permissive aggregation rules?	☐ Yes ☐ No
17a If the plan is a master and prototype plan (M&P) or volume submitter plan that received a favorable IRS opinion letter or advisory letter, enter the date of the letter ____/____/____ and the serial number _____.	
17b If the plan is an individually-designed plan that received a favorable determination letter from the IRS, enter the date of the most recent determination letter ____/____/____.	
18 Defined Benefit Plan or Money Purchase Pension Plan Only: Were any distributions made during the plan year to an employee who attained age 62 and had not separated from service?	☐ Yes ☐ No
19 Was any plan participant a 5% owner who had attained at least age 70 ½ during the prior plan year?	☐ Yes ☐ No

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 2016 This Form is Open to Public Inspection
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For calendar plan year 2016 or fiscal plan year beginning 01/01/2016 and ending 12/31/2016

▶ **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>BOGE N.A. PENSION PLAN</u>	B Three-digit plan number (PN) ▶ <u>002</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>Z F NORTH AMERICA, INC.</u>	D Employer Identification Number (EIN) <u>61-1462969</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>2016</u>	
2 Assets:	
a Market value	2a <u>2961597</u>
b Actuarial value	2b <u>2961597</u>
3 Funding target/participant count breakdown	
a For retired participants and beneficiaries receiving payment	(1) Number of participants <u>47</u> (2) Vested Funding Target <u>2147662</u> (3) Total Funding Target <u>2147662</u>
b For terminated vested participants	<u>34</u> <u>1144048</u> <u>1144048</u>
c For active participants	
d Total	<u>81</u> <u>3291710</u> <u>3291710</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>6.03 %</u>
6 Target normal cost	6 <u>0</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>01/23/2017</u>
	Signature of actuary	Date
<u>MATTHEW C. LONGLEY</u>	Type or print name of actuary	<u>14-08359</u>
		Most recent enrollment number
<u>SMS RETIREMENT</u>	Firm name	<u>513-984-6100</u>
<u>4520 COOPER ROAD, SUITE 203</u> <u>CINCINNATI, OH 45242</u>	Address of the firm	Telephone number (including area code)

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, see the Instructions for Form 5500 or 5500-SF.

Schedule SB (Form 5500) 2016
v. 160205

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)	0	80833
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	80833
10	Interest on line 9 using prior year's actual return of 0.74%	0	598
11	Prior year's excess contributions to be added to prefunding balance:		
a	Present value of excess contributions (line 38a from prior year)		7921
b(1)	Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of 6.24%		494
b(2)	Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c	Total available at beginning of current plan year to add to prefunding balance		8415
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	81431

Part III Funding Percentages			
14	Funding target attainment percentage	14	87.49%
15	Adjusted funding target attainment percentage	15	87.49%
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	92.56%
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)		18(c)

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	(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: 4.43%	2nd segment: 5.91%
		3rd segment: 6.65%	☐ N/A, full yield curve used
b Applicable month (enter code)			21b 2
22 Weighted average retirement age			22 65
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 0
b Excess assets, if applicable, but not greater than line 31a			31b 0
32 Amortization installments:		Outstanding Balance	Installment
a Net shortfall amortization installment		411544	72772
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 72772
	Carryover balance	Prefunding balance	Total balance
35 Balances elected for use to offset funding requirement		72772	72772
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

Form 5500-SF Department of the Treasury Internal Revenue Service	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 section 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="text-align: center; font-size: 1.2em; font-weight: bold;">2016</div>
Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation	This Form is Open to Public Inspection	

Part I	Annual Report Identification Information
For calendar plan year 2016 or fiscal plan year beginning 01/01/2016 and ending 12/31/2016	

A This return/report is for:	☒ a single-employer plan	☐ a multiple-employer plan (not multiemployer) (Filers checking this box must attach a list of participating employer information in accordance with the form instructions.)	
	☐ a one-participant plan	☐ a foreign 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
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1a Name of plan BOGE N.A. Pension Plan	1b Three-digit plan number (PN) ►	002
	1c Effective date of plan 06/01/1997	
2a Plan sponsor's name (employer, if for a single-employer plan) Mailing Address (include room, apt., suite no. and street, or P.O. Box) City or town, state or province, country, and ZIP or foreign postal code (if foreign, see instructions) Z F North America, Inc. 15811 Centennial Drive US Northville MI 48168	2b Employer Identification Number (EIN) 61-1462969 2c Sponsor's telephone number (734) 207-2843 2d Business code (see instructions) 339900	
3a Plan administrator's name and address ☒ Same as Plan Sponsor	3b Administrator's EIN	
	3c Administrator's telephone number	
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	81
b Total number of participants at the end of the plan year	5b	70
c Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)	5c	
d(1) Total number of active participants at the beginning of the plan year	5d(1)	0
d(2) Total number of active participants at the end of the plan year	5d(2)	0
e Number of participants that terminated employment during the plan year with accrued benefits that were less than 100% vested	5e	0

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			Connie Rightmer 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) Skip this question			Preparer's telephone number Skip this question

- 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.
- c If the plan is a defined benefit plan, is it covered under the PBGC insurance program (see ERISA section 4021)? ☒ Yes ☐ No ☐ Not determined

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	2,961,597	0
b Total plan liabilities	7b	0	0
c Net plan assets (subtract line 7b from line 7a)	7c	2,961,597	0
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	165,755	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		165,755
d Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d	888,072	
e Certain deemed and/or corrective distributions (see instructions) ...	8e		
f Administrative service providers (salaries, fees, commissions)	8f	33,666	
g Other expenses	8g		
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		921,738
i Net income (loss) (subtract line 8h from line 8c)	8i		(755,983)
j Transfers to (from) the plan (see instructions)	8j	(2,205,614)	

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:
1I 3D
- 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	N/A	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			500,000
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				
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 unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40	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? (If "Yes," complete line 12a or lines 12b, 12c, 12d, and 12e below, as applicable.)	☐ Yes ☒ No
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 the 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)
TRW Automotive Salaried Pension Plan		14-1857697
		13c(3) PN(s)
		002

Part VIII Trust Information - Skip These Questions

14a Name of trust	14b Trust's EIN
14c Name of trustee or custodian	14d Trustee or custodian's telephone number

Part IX IRS Compliance Questions - Skip These Questions

15a Is the plan a 401(k) plan? If "No," skip b.	☐ Yes ☐ No
15b How did the plan satisfy the nondiscrimination requirements for employee deferrals under section 401(k)(3) for the plan year? Check all that apply:	☐ Design-based safe harbor ☐ "Prior year" ADP test ☐ "Current year" ADP test ☐ N/A
16a What testing method was used to satisfy the coverage requirements under section 410(b) for the plan year? Check all that apply:	☐ Ratio percentage test ☐ Average benefit test ☐ N/A
16b Did the plan satisfy the coverage and nondiscrimination requirements of sections 410(b) and 401(a)(4) for the plan year by combining this plan with any other plan under the permissive aggregation rules?	☐ Yes ☐ No
17a If the plan is a master and prototype plan (M&P) or volume submitter plan that received a favorable IRS opinion letter or advisory letter, enter the date of the letter ____/____/____ and serial number _____	
17b If the plan is an individually-designed plan that received a favorable determination letter from the IRS, enter the date of the most recent determination letter ____/____/____	
18 Defined Benefit Plan or Money Purchase Pension Plan Only: Were any distributions made during the plan year to an employee who attained age 62 and had not separated from service?	☐ Yes ☐ No
19 Was any plan participant a 5% owner who had attained at least age 70 1/2 during the prior plan year?	☐ Yes ☐ No

BOGE N.A.
PENSION PLAN

Shortfall Amortization
Plan Year: 1/1/2016 to 12/31/2016
Valuation Date: 1/1/2016

If the plan has a funded status below 100%, the plan may require additional payments in the form of shortfall amortization payments. A plan's amortization payments are calculated to pay down the plan's underfunding over a seven year period (unless a plan sponsor has elected to use allowable relief, in which case the payment period will be longer).

<u>Valuation Date</u>	<u>Amortization Method</u>	<u>Number of Future Installments</u>	<u>Installment</u>	<u>Value of Future Installments</u>
01/01/2015	7-year	6	\$40,786	\$217,955
01/01/2016	7-year	7	<u>\$31,986</u>	<u>\$193,589</u>
Total			\$72,772	\$411,544

BOGE NA Pension Plan

EIN: 61-1462969

PN: 002

Schedule SB, Line 19 - Discounted Employer Contributions

<u>Date</u>	<u>Amount</u>	<u>Plan Year</u>	<u>Days Discounted at Effective Rate of 6.03%</u>	<u>Days Discounted at Penalty Rate of 11.03%</u>	<u>Discounted Value</u>
Line 19c - Contributions Allocated Toward Minimum Required Contribution for Current Year					
Total	0				0

Note that if no quarterlies are late and 19a and 19b are both zero, then no line 19 attachment is necessary.

5500-SB attachment for Ret Age Assumption

Item: SB #22

Year ending: Dec 31, 2016

BOGE NA Pension

EIN: 61-1462969

Plan # 002

No active employees. Vested Deferred assumed to retire at age 65, or current age if older.

**BOGE N.A.
PENSION PLAN**

Summary of Plan Provisions
Plan Year: 1/1/2016 to 12/31/2016
Valuation Date: 1/1/2016

Plan Effective Date	January 1, 1997
Plan Year	From January 1 to December 31
Eligibility	<p>All employees not excluded by class are eligible to enter on the date coincident with or following the completion of the following requirements:</p> <p style="padding-left: 40px;">1 year of service Minimum age 17</p> <p>Hourly Benefits frozen Dec. 31, 2007. Salaried Benefits frozen Dec. 31, 2003</p>
Normal Retirement Age	All participants are eligible to retire with their full retirement benefit on attainment of age 65
Normal Retirement Benefit	<p>Upon normal retirement each participant will be entitled to a benefit payable in the normal form equal to the following:</p> <p style="padding-left: 40px;">\$23.50 per month per credited year of service with a maximum of 45 years</p> <p>Credited years are years commencing with the date of hire and ending with the retirement year excluding the following:</p> <p style="padding-left: 40px;">None</p> <p style="padding-left: 40px;">Maximum benefit is \$17,500.00 per month Maximum percent of salary is 100%</p>
Early Retirement Age	<p>Attainment of age 55 Completion of 10 years of service from hire date</p>
Early Retirement Benefit	6% per year
Normal Form of Benefit	A benefit payable for the life of the participant
Accrued Benefit	The normal retirement benefit described above calculated based on service on the calculation date, and payable on the normal retirement date.

**BOGE N.A.
PENSION PLAN**

Summary of Plan Provisions
Plan Year: 1/1/2016 to 12/31/2016
Valuation Date: 1/1/2016

Termination Benefit

Upon termination for any reason other than death or retirement a participant shall be entitled to a portion of the actuarial equivalent of his accrued benefit in accordance with the following vesting schedule:

<u>Credited Years</u>	<u>Vested Percent</u>
1	0
2	0
3	0
4	0
5	100

Credited years are years commencing with the date of hire and ending with the retirement year excluding the following:

None

Top-Heavy Status

A plan is top-heavy if over 60% of the value of all accrued benefits in all of the employer's plans are for the benefit of key employees. A key employee is generally an officer or owner of the company. This plan is currently not top-heavy.

Death Benefit

Survivor portion of a qualified joint and 50% survivor annuity payable to the surviving spouse.

SCHEDULE SB (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration Pension Benefit Guaranty Corporation</small>	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 2016 This Form is Open to Public Inspection
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For calendar plan year 2016 or fiscal plan year beginning **01/01/2016** and ending **12/31/2016**

► **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 BOGE N.A. Pension Plan	B Three-digit plan number (PN) ►	002
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Z F North America, Inc.	D Employer Identification Number (EIN) 61-1462969	
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> 2016 </u>				
2 Assets:				
a Market value	2a			2,961,597
b Actuarial value	2b			2,961,597
3 Funding target/participant count breakdown:	(1) Number of participants	(2) Vested Funding Target	(3) Total Funding Target	
a For retired participants and beneficiaries receiving payment	47	2,147,662	2,147,662	
b For terminated vested participants	34	1,144,048	1,144,048	
c For active participants				
d Total	81	3,291,710	3,291,710	
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	6.03 %		
6 Target normal cost	6	0		

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	Signature of actuary Matthew C. Longley Type or print name of actuary SMS Retirement Firm name 4520 Cooper Road, Suite 203 US Cincinnati OH 45242 Address of the firm	01/23/2017 Date 14-08359 Most recent enrollment number (513) 984-6100 Telephone number (including area code)
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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, see the instructions for Form 5500 or 5500-SF.

**Schedule SB (Form 5500) 2016
v. 160205**

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)	0	80,833
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	80,833
10 Interest on line 9 using prior year's actual return of <u>0.74%</u>	0	598
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		7,921
b(1) Interest on the excess, if any, of line 38a over line 38b from prior year Schedule SB, using prior year's effective interest rate of <u>6.24%</u>		494
b(2) Interest on line 38b from prior year Schedule SB, using prior year's actual return		0
c Total available at beginning of current plan year to add to prefunding balance ..		8,415
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	81,431

Part III Funding Percentages

14 Funding target attainment percentage	14	87.49 %
15 Adjusted funding target attainment percentage	15	87.49 %
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	92.56 %
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)		18(c)

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	
b Contributions made to avoid restrictions adjusted to valuation date	19b	
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	(4) 4th

Part V Assumptions Used To Determine Funding Target and Target Normal Cost**21** Discount rate:**a** Segment rates:1st segment:
4.43 %2nd segment:
5.91 %3rd segment:
6.65 %☐ N/A, full yield curve used**b** Applicable month (enter code)**21b****2****22** Weighted average retirement age**22****65****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****29** Discounted employer contributions allocated toward unpaid minimum required contributions from prior years (line 19a)**29****30** Remaining amount of unpaid minimum required contributions (line 28 minus line 29)**30****Part VIII Minimum Required Contribution For Current Year****31** Target normal cost and excess assets (see instructions):**a** Target normal cost (line 6)**31a****0****b** Excess assets, if applicable, but not greater than line 31a**31b****0****32** Amortization installments:

Outstanding Balance

Installment

a Net shortfall amortization installment**411,544****72,772****b** Waiver amortization installment**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****72,772****35** Balances elected for use to offset funding requirement**72,772****72,772****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**

**BOGE N.A.
PENSION PLAN**

Summary of Actuarial Assumptions and Method

Plan Year: 1/1/2016 to 12/31/2016

Valuation Date: 1/1/2016

	For Funding					
		<u>Min</u>	<u>Max</u>		<u>For 417(e)</u>	<u>For Actuarial Equiv.</u>
Interest Rates	Seg 1:	4.43%	1.36%	Seg 1:	1.68%	Pre-Retirement: 6.00%
	Seg 2:	5.91%	3.99%	Seg 2:	4.05%	Post-Retirement: 6.00%
	Seg 3:	6.65%	5.02%	Seg 3:	4.98%	
Pre-Retirement						
Turnover	None			None		None
Mortality	Male-modified RP2000 combined healthy male projected 31 & 23 years Female-modified RP2000 combined healthy female projected 31 & 23 years			None		None
Assumed Ret Age	Normal retirement age 65			Normal retirement age 65		Normal retirement age 65
Post-Retirement						
Mortality	Male-modified RP2000 combined healthy male projected 31 & 23 years Female-modified RP2000 combined healthy female projected 31 & 23 years			2016 Applicable Mortality Table from Notice 2015-53		GAR 94 Projctd to 2002 scale AA 50%M/50%F
Assumed Benefit Form For Funding				Normal Form		
Calculated Effective Interest Rate				6.03%		
Actuarial Cost Method				The Unit Credit funding method was used as prescribed by the Pension Protection Act. This method sets the funding target equal to the present value of accrued benefits, and sets the normal cost equal to the present value of the benefit accrued in the current year.		

An actuarial value of assets is used for funding purposes. This year the actuarial value of assets is 100.0% of the market value of assets.