

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 2019 This Form is Open to Public Inspection
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Part I Annual Report Identification Information			
For calendar plan year 2019 or fiscal plan year beginning <u>01/01/2019</u> and ending <u>12/31/2019</u>			
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	<u>PENSION PLAN FOR HOURLY BARGAINING UNIT OF TECHNISAND - TROY GROVE</u>		1b Three-digit plan number (PN) ►	<u>001</u>
			1c Effective date of plan	<u>11/21/1991</u>
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)	<u>TECHNISAND, INC.</u> <u>3 SUMMIT PARK DRIVE</u> <u>SUITE 700</u> <u>INDEPENDENCE, OH 44131</u>		2b Employer Identification Number (EIN)	<u>34-1684239</u>
			2c Sponsor's telephone number	<u>440-214-3244</u>
			2d Business code (see instructions)	<u>212310</u>
3a Plan administrator's name and address ☐ Same as Plan Sponsor.	<u>COVIA HOLDINGS CORPORATION</u> <u>3 SUMMIT PARK DRIVE</u> <u>SUITE 700</u> <u>INDEPENDENCE, OH 44131</u>		3b Administrator's EIN	<u>13-2656671</u>
			3c Administrator's telephone number	<u>440-214-3244</u>
4 If the name and/or EIN of the plan sponsor or the plan name has changed since the last return/report filed for this plan, enter the plan sponsor's name, EIN, the plan name and the plan number from the last return/report.			4b EIN	
a Sponsor's name			4d PN	
c Plan Name				
5a Total number of participants at the beginning of the plan year	5a	<u>48</u>		
b Total number of participants at the end of the plan year	5b	<u>0</u>		
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)	<u>36</u>		
d(2) Total number of active participants at the end of the plan year	5d(2)	<u>0</u>		
e Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested	5e	<u>0</u>		

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.	10/13/2020	KEITH FEICKS
	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

- 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
- If "Yes" is checked, enter the My PAA confirmation number from the PBGC premium filing for this plan year 4205963. (See instructions.)

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	1347825	0
b Total plan liabilities	7b		
c Net plan assets (subtract line 7b from line 7a)	7c	1347825	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	297982	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		297982
d Benefits paid (including direct rollovers and insurance premiums to provide benefits)	8d		
e Certain deemed and/or corrective distributions (see instructions) ...	8e		
f Administrative service providers (salaries, fees, commissions)	8f	2740	
g Other expenses	8g		
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		2740
i Net income (loss) (subtract line 8h from line 8c)	8i		295242
j Transfers to (from) the plan (see instructions)	8j	-1643067	

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:
1B 1I 3H
- 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		☒	
b Were there any nonexempt transactions with any party-in-interest? (Do not include transactions reported on line 10a.)	10b		☒	
c Was the plan covered by a fidelity bond?	10c	☒		5000000
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		☒	
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		☒	
f Has the plan failed to provide any benefit when due under the plan?	10f		☒	
g Did the plan have any participant loans? (If "Yes," enter amount as of year-end.)	10g		☒	
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 lines 11a and b below.) If this is a defined contribution pension plan, leave line 12 below..... ☒ Yes ☐ No

a Enter the unpaid minimum required contributions for all years from Schedule SB (Form 5500) line 40..... **11a** 0

b PBGC missed contribution reporting requirements. If the plan is covered by PBGC and the amount reported on line 11a is greater than \$0, has PBGC been notified as required by ERISA sections 4043(c)(5) and/or 303(k)(4)? Check the applicable box:

- ☐ Yes.
- ☐ No. Reporting was waived under 29 CFR 4043.25(c)(2) because contributions equal to or exceeding the unpaid minimum required contribution were made by the 30th day after the due date.
- ☐ No. The 30-day period referenced in 29 CFR 4043.25(c)(2) has not yet ended, and the sponsor intends to make a contribution equal to or exceeding the unpaid minimum required contribution by the 30th day after the due date.
- ☐ No. Other. Provide explanation _____

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.) If this is a defined benefit pension plan, leave line 12 blank and complete line 11 above.

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)	13c(3) PN(s)
COVIA HOLDINGS CORPORATION PENSION PLAN	13-2656671	003

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 2019 This Form is Open to Public Inspection
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For calendar plan year 2019 or fiscal plan year beginning 01/01/2019 and ending 12/31/2019

▶ **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>PENSION PLAN FOR HOURLY BARGAINING UNIT OF TECHNISAND - TROY GROVE</u>	B Three-digit plan number (PN) ▶ <u>001</u>
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF <u>TECHNISAND, INC.</u>	D Employer Identification Number (EIN) <u>34-1684239</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>2019</u>	
2 Assets:	
a Market value	2a <u>1347804</u>
b Actuarial value	2b <u>1431261</u>
3 Funding target/participant count breakdown	
a For retired participants and beneficiaries receiving payment.....	(1) Number of participants <u>0</u> (2) Vested Funding Target <u>0</u> (3) Total Funding Target <u>0</u>
b For terminated vested participants.....	<u>12</u> <u>199455</u> <u>199455</u>
c For active participants	<u>36</u> <u>1072820</u> <u>1169089</u>
d Total.....	<u>48</u> <u>1272275</u> <u>1368544</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>5.75</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	
Signature of actuary <u>LAWRENCE E. SCHERER</u>	<u>08/11/2020</u>
Type or print name of actuary <u>FINDLEY, INC.</u>	Date <u>20-06389</u>
Firm name <u>1660 W. SECOND STREET, SUITE 900</u> <u>CLEVELAND, OH 44113-1461</u>	Most recent enrollment number <u>216-875-1900</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) 2019
v. 190130

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	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 <u>-7.29</u> %	0	0
11 Prior year's excess contributions to be added to prefunding balance:		
a Present value of excess contributions (line 38a from prior year)		18879
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>5.93</u> %		1120
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		19999
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	104.58 %
15 Adjusted funding target attainment percentage	15	104.58 %
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	107.10 %
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 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:
3.74 %2nd segment:
5.35 %3rd segment:
6.11 %☐ N/A, full yield curve used**b** Applicable month (enter code)**21b**

4

22 Weighted average retirement age**22**

63

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:**a** Net shortfall amortization installment Outstanding Balance 0 Installment 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**35** Balances elected for use to offset funding requirement Carryover balance 0 Prefunding balance 0 Total balance 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

Schedule SB, Line 26 - Schedule of Active Participant Data

January 1, 2019 Valuation
Pension Plan for Hourly Bargaining Unit Employees of Technisand - Troy Grove
(EIN: 34-1684239; PN: 001)

Attained Age	Years of Credited Service									
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up
Under 25	-	-	-	-	-	-	-	-	-	-
25 to 29	-	3 (*)	-	-	-	-	-	-	-	-
30 to 34	-	-	1 (*)	1 (*)	-	-	-	-	-	-
35 to 39	-	-	5 (*)	-	-	-	-	-	-	-
40 to 44	-	2 (*)	1 (*)	-	-	-	-	-	-	-
45 to 49	-	1 (*)	3 (*)	2 (*)	1 (*)	1 (*)	-	-	-	-
50 to 54	-	-	4 (*)	1 (*)	1 (*)	-	2 (*)	-	-	-
55 to 59	-	-	1 (*)	-	-	-	2 (*)	-	-	-
60 to 64	-	-	-	-	2 (*)	-	1 (*)	-	-	-
65 to 69	-	-	-	-	-	-	1 (*)	-	-	-
70 & up	-	-	-	-	-	-	-	-	-	-

* Average annual accrued benefit is not shown since there are fewer than 1,000 active participants in this plan

Appendix B

Statement of Actuarial Assumptions and Methods

Minimum Funding Annual Interest Rates	<p>24-month segment rates averaged through the end of August 2018 and published in September 2018 (as prescribed by IRC 430) and adjusted to reflect BBA:</p> <ul style="list-style-type: none">Segment 1 (0 – 5 years) 3.74%Segment 2 (5 to 20 years) 5.35%Segment 3 (more than 20 years) 6.11%Effective Interest Rate 5.75%
Maximum Deductible Annual Interest Rates	<p>24-month segment rates averaged through the end of August 2018 and published in September 2018 (as prescribed by IRC 430) as follows:</p> <ul style="list-style-type: none">Segment 1 (0 – 5 years) 2.28%Segment 2 (5 to 20 years) 3.81%Segment 3 (more than 20 years) 4.46%Effective Interest Rate 4.20%
Annual Expected Return on Assets	<p>Interest Rate for developing Actuarial Value of Assets; limited to third segment rate 7.40%</p> <p>Rationale: Based on a review of historical and expected returns on various asset categories held by the plan as well as information provided by the plan's investment advisor.</p>
PBGC Annual Interest Rates	<p>Spot Rates for December 2018 published in January 2019 using the Standard Method as follows:</p> <ul style="list-style-type: none">Segment 1 (0 – 5 years) 3.38%Segment 2 (5 to 20 years) 4.32%Segment 3 (more than 20 years) 4.69%Effective Interest Rate 4.55%
Salary Scale	Not applicable
Mortality	RP-2006 static, non-generational Mortality Table as described in Regulation 1.430(h)(3)-1 and Notice 2017-60, projected by Scale MP-2017, male and female, with combined rates for annuitants and nonannuitants (as prescribed by IRC 430).

Appendix B (Continued)

Rates of Retirement

<u>Age(s)</u>	<u>Under 25 Years of Service</u>	<u>Over 25 Years of Service</u>
55	2%	5%
56-59	1	5
60	4	10
61	10	10
62	16	25
63	12	25
64	35	25
65	100	100

Terminated Vested participants and Deferred Beneficiaries are assumed to commence at Normal Retirement Date.

Rationale: Based on an experience study completed in 2016.

Weighted Average Retirement Age is 63. This is the average retirement age for someone eligible to retire at all ages using the assumed retirement rates and no other decrements.

Rates of Turnover

Based on age and length of service as follows:

<u>Age</u>	<u>Completed Years of Service</u>			
	<u>0</u>	<u>1</u>	<u>2</u>	<u>3+</u>
25	17.37%	13.03%	8.68%	4.29%
35	12.11	9.08	6.05	2.86
40	9.47	7.11	4.74	2.14
45	6.84	5.13	3.42	1.43
55	1.58	1.18	0.79	0.00

Rates of Disability

100% of Table S-10 of the 11th Railroad Retirement Board Valuation (modified). Sample rates and ages are as follows.

<u>Age(s)</u>	<u>Rate</u>
25	.060%
40	.120
55	1.070

Assumptions Made In Valuing Spouse's Benefit

Eighty-five percent of the male and fifty percent of the female employees included in the valuation are assumed to be married. These percentages are used as the probabilities that survivor benefits will be payable due to preretirement deaths. The wife is assumed to be three years younger than the husband.

Optional Form Selection

All employees are assumed to elect the normal form of benefit.

Appendix B (Continued)

Provision for Expenses	None. Expenses are paid outside of plan assets.
Standing Elections	The client has not signed an election that provides for the automatic use of the Carryover and/or Prefunding Balance if necessary at the end of the plan year to meet the minimum funding requirement.
Asset Method	Market Value of Assets plus interest adjusted accrued but unpaid contributions as of the valuation date plus an adjustment to defer full recognition of investment losses and gains over a two-year period. The investment (gain)/loss for every year equals the market value at the beginning of the year projected to the end of the year using the interest rate above, but no greater than the third segment rate for the plan year, minus the end of the year actual market value. The actuarial value of assets will be no less than 90% and no more than 110% of the market value (including interest-adjusted accrued but unpaid contributions). Note that due to the regulatory constraint on the interest rate, a characteristic of this asset valuation method is that, over time, it may be more likely to produce an actuarial value of assets that is less than the market value of assets.
Funding Method	Pure Unit Credit
Employees Valued	Only participants as of the valuation date were valued.
Changes in Assumptions and Methods since the Last Actuarial Valuation	<p>The interest rates used for determining the funding target were 3.92%, 5.52% and 6.29%. These rates were updated to the rates required for the current plan year.</p> <p>The mortality table for the funding target was changed as required under PPA '06.</p>
Justification for Changes in Actuarial Assumptions	The only assumption changes were to prescribed actuarial assumptions or as a result of At-Risk status. Therefore, the plan did not need IRS approval to change assumptions and there is no need to disclose any "Change in Actuarial Assumptions."

**SCHEDULE SB
(Form 5500)**Department of the Treasury
Internal Revenue ServiceDepartment 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

2019**This Form is Open to Public
Inspection**For calendar plan year 2019 or fiscal plan year beginning 01/01/2019 and ending 12/31/2019▶ **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.

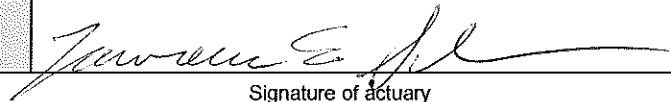
A Name of plan PENSION PLAN FOR HOURLY BARGAINING UNIT OF TECHNISAND - TROY GROVE		B Three-digit plan number (PN) ▶ 001
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Technisand, Inc.		D Employer Identification Number (EIN) 34-1684239
E Type of plan: ☒ Single ☐ Multiple-A ☐ Multiple-B		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>2019</u>			
2 Assets:			
a Market value.....		2a	1,347,804
b Actuarial value		2b	1,431,261
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	0	0	0
b For terminated vested participants	12	199,455	199,455
c For active participants	36	1,072,820	1,169,089
d Total	48	1,272,275	1,368,544
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	5.75%	
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

LAWRENCE E. SCHERER

Type or print name of actuary

FINDLEY, INC.

Firm name

1660 W. SECOND STREET, SUITE 900

CLEVELAND OH 44113-1461

Address of the firm

8/11/2020

Date

2006389

Most recent enrollment number

216-875-1900

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) 2019
v. 190130

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	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
0	Interest on line 9 using prior year's actual return of <u>-7.29%</u>	0	0
1	Prior year's excess contributions to be added to prefunding balance:		
a	Present value of excess contributions (line 38a from prior year).....		18,879
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>5.93%</u>		1,120
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.....		19,999
d	Portion of (c) to be added to prefunding balance.....		0
2	Other reductions in balances due to elections or deemed elections.....	0	0
3	Balance at beginning of current year (line 9 + line 10 + line 11d – line 12).....	0	0

Part III		Funding Percentages	
4	Funding target attainment percentage	14	104.58%
5	Adjusted funding target attainment percentage.....	15	104.58%
6	Prior year's funding percentage for purposes of determining whether carryover/prefunding balances may be used to reduce current year's funding requirement	16	107.10%
7	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			
8 Contributions made to the plan year 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 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		
(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: 3.74 %	2nd segment: 5.35 %	3rd segment: 6.11 %
			☐ N/A, full yield curve used
b Applicable month (enter code).....			21b 4
22 Weighted average retirement age			22 63
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		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

Schedule SB, Line 22 – Description of Weighted Average Retirement Age
Pension Plan for Hourly Bargaining Unit Employees of Technisand – Troy Grove
January 1, 2019 Valuation
EIN/PN: 34-1684239 / 001

Rates of Retirement

<u>Age(s)</u>	<u>Under 25 Years of Service</u>	<u>Over 25 Years of Service</u>
55	2%	5%
56-59	1	5
60	4	10
61	10	10
62	16	25
63	12	25
64	35	25
65	100	100

Terminated Vested participants and Deferred Beneficiaries are assumed to commence at Normal Retirement Date.

Rationale: Based on an experience study completed in 2016.

Weighted Average Retirement Age is 63. This is the average retirement age for someone eligible to retire at all ages using the assumed retirement rates and no other decrements.

Appendix B

Statement of Actuarial Assumptions and Methods

Minimum Funding Annual Interest Rates	<p>24-month segment rates averaged through the end of August 2018 and published in September 2018 (as prescribed by IRC 430) and adjusted to reflect BBA:</p> <ul style="list-style-type: none"> Segment 1 (0 – 5 years) 3.74% Segment 2 (5 to 20 years) 5.35% Segment 3 (more than 20 years) 6.11% Effective Interest Rate 5.75%
Maximum Deductible Annual Interest Rates	<p>24-month segment rates averaged through the end of August 2018 and published in September 2018 (as prescribed by IRC 430) as follows:</p> <ul style="list-style-type: none"> Segment 1 (0 – 5 years) 2.28% Segment 2 (5 to 20 years) 3.81% Segment 3 (more than 20 years) 4.46% Effective Interest Rate 4.20%
Annual Expected Return on Assets	<p>Interest Rate for developing Actuarial Value of Assets; limited to third segment rate 7.40%</p> <p>Rationale: Based on a review of historical and expected returns on various asset categories held by the plan as well as information provided by the plan's investment advisor.</p>
PBGC Annual Interest Rates	<p>Spot Rates for December 2018 published in January 2019 using the Standard Method as follows:</p> <ul style="list-style-type: none"> Segment 1 (0 – 5 years) 3.38% Segment 2 (5 to 20 years) 4.32% Segment 3 (more than 20 years) 4.69% Effective Interest Rate 4.55%
Salary Scale	Not applicable
Mortality	RP-2006 static, non-generational Mortality Table as described in Regulation 1.430(h)(3)-1 and Notice 2017-60, projected by Scale MP-2017, male and female, with combined rates for annuitants and nonannuitants (as prescribed by IRC 430).

Appendix B (Continued)

Rates of Retirement

<u>Age(s)</u>	<u>Under 25 Years of Service</u>	<u>Over 25 Years of Service</u>
55	2%	5%
56-59	1	5
60	4	10
61	10	10
62	16	25
63	12	25
64	35	25
65	100	100

Terminated Vested participants and Deferred Beneficiaries are assumed to commence at Normal Retirement Date.

Rationale: Based on an experience study completed in 2016.

Weighted Average Retirement Age is 63. This is the average retirement age for someone eligible to retire at all ages using the assumed retirement rates and no other decrements.

Rates of Turnover

Based on age and length of service as follows:

<u>Age</u>	<u>Completed Years of Service</u>			
	<u>0</u>	<u>1</u>	<u>2</u>	<u>3+</u>
25	17.37%	13.03%	8.68%	4.29%
35	12.11	9.08	6.05	2.86
40	9.47	7.11	4.74	2.14
45	6.84	5.13	3.42	1.43
55	1.58	1.18	0.79	0.00

Rates of Disability

100% of Table S-10 of the 11th Railroad Retirement Board Valuation (modified).
Sample rates and ages are as follows.

<u>Age(s)</u>	<u>Rate</u>
25	.060%
40	.120
55	1.070

Assumptions Made In Valuing Spouse's Benefit

Eighty-five percent of the male and fifty percent of the female employees included in the valuation are assumed to be married. These percentages are used as the probabilities that survivor benefits will be payable due to preretirement deaths. The wife is assumed to be three years younger than the husband.

Optional Form Selection

All employees are assumed to elect the normal form of benefit.

Appendix B (Continued)

Provision for Expenses	None. Expenses are paid outside of plan assets.
Standing Elections	The client has not signed an election that provides for the automatic use of the Carryover and/or Prefunding Balance if necessary at the end of the plan year to meet the minimum funding requirement.
Asset Method	Market Value of Assets plus interest adjusted accrued but unpaid contributions as of the valuation date plus an adjustment to defer full recognition of investment losses and gains over a two-year period. The investment (gain)/loss for every year equals the market value at the beginning of the year projected to the end of the year using the interest rate above, but no greater than the third segment rate for the plan year, minus the end of the year actual market value. The actuarial value of assets will be no less than 90% and no more than 110% of the market value (including interest-adjusted accrued but unpaid contributions). Note that due to the regulatory constraint on the interest rate, a characteristic of this asset valuation method is that, over time, it may be more likely to produce an actuarial value of assets that is less than the market value of assets.
Funding Method	Pure Unit Credit
Employees Valued	Only participants as of the valuation date were valued.
Changes in Assumptions and Methods since the Last Actuarial Valuation	<p>The interest rates used for determining the funding target were 3.92%, 5.52% and 6.29%. These rates were updated to the rates required for the current plan year.</p> <p>The mortality table for the funding target was changed as required under PPA '06.</p>
Justification for Changes in Actuarial Assumptions	The only assumption changes were to prescribed actuarial assumptions or as a result of At-Risk status. Therefore, the plan did not need IRS approval to change assumptions and there is no need to disclose any "Change in Actuarial Assumptions."

Appendix A

Summary of Principal Plan Provisions

Plan Sponsor	Technisand Inc.-Troy Grove
EIN/PN	34-1684239/001
Effective Date	November 21, 1991; amended and restated effective January 1, 2015; last amended and effective December 31, 2016.
Last Bargaining Agreement	Effective November 22, 2011.
Plan Year	The 12-month period beginning each January 1.
Participation	An employee covered by the Collective Bargaining Agreement with the Aluminum, Brick, and Glassworkers International Union AFL-CIO, CLC, and its Local 427G enters the Plan upon completion of one year of service and attainment of age 20½. No one will enter the Plan after December 31, 2016.
Vesting Service	One year of vesting service is earned for each plan year in which 1,000 hours are worked.
Credited Service	One-twelfth of a year of credited service is granted for each 173⅓ hours and part thereof completed in a Plan Year. Credited Service was frozen as of December 31, 2016 for benefit accrual purposes.
Accrued Benefit	A monthly life annuity with 120 payments certain starting at age 65 equal to the benefit unit at termination multiplied by the number of years of Credited Service.

<u>Date of Termination</u>	<u>Benefit Unit</u>
Prior to 1/01/1995	\$14.00
1/01/1995 to 12/31/1995	15.00
1/01/1996 to 12/31/1996	16.00
1/01/1997 to 12/31/1997	17.00
1/01/1998 to 12/31/1998	18.00
1/01/1999 to 12/31/1999	19.00
1/01/2000 to 11/24/2000	20.00
11/25/2000 to 11/21/2003	21.00
11/22/2003 to 11/21/2004	22.00
11/22/2004 to 11/21/2005	23.00
11/22/2005 to 11/21/2006	24.00

Appendix A (Continued)

Accrued Benefit (Continued)	<u>Date of Termination</u>	<u>Benefit Unit</u>
	11/22/2006 to 11/21/2007	25.00
	11/22/2007 to 11/21/2008	26.00
	11/22/2010 to 11/21/2011	29.00
	11/22/2011 to 11/21/2012	30.00
	11/22/2012 to 11/21/2013	31.00
	11/22/2013 to 11/21/2014	32.00
	11/22/2014 and after	33.00

Normal Retirement Benefit

Eligibility:

Age 65 or, if later, fifth anniversary of joining the Plan.

Monthly Benefit:

The Accrued Benefit.

Early Retirement Benefit

Eligibility:

Age 55 and 10 years of Vesting Service or 25 years of Vesting Service and attainment of 75 points.

Monthly Benefit:

The Accrued Benefit at early retirement reduced by 0.5% for each month retirement precedes age 65. No reduction if the participant is eligible under the 25 years of vesting and 75 points provision.

Disability Retirement Benefit

Eligibility:

Permanent and total disability after completion of at least 10 years of Vesting Service.

Monthly Benefit:

The Accrued Benefit.

Appendix A (Continued)

Termination Benefit

Eligibility:

Upon termination of employment prior to retirement but after completion of at least five years of Vesting Service a participant is 100% vested.

Monthly Benefit:

The vested benefit commences in full at age 65, or in a reduced amount under the early retirement provisions if at least 10 years of Vesting Service had been completed.

Death Benefit

Eligibility:

100% vested and married for at least one year.

Monthly Benefit:

A monthly benefit for life commencing at the time the participant would have been eligible for retirement. The benefit is equal to 50% of the benefit vested on the date of death, adjusted as appropriate for early commencement and the 50% Joint and Survivor Annuity form of payment.

Optional Forms Available

The following optional forms are available under this plan: Life Annuity; 5, 10, and 15 Year Certain and Continuous Annuity; 50%, 75% and 100% Joint and Survivor Annuity. See Lump Sums below.

Optional forms are determined using the 1994 Group Reserve Table (male and female) for mortality and 5.5% interest.

Benefits Available as Lump Sums

This plan pays only small benefit amounts (lump sums less than \$1,000).

Changes in Plan Provisions

The automatic changes, if any, in the maximum benefit limit were recognized.

Schedule SB, Line 26 - Schedule of Active Participant Data

January 1, 2019 Valuation
Pension Plan for Hourly Bargaining Unit Employees of Technisand - Troy Grove
(EIN: 34-1684239; PN: 001)

Attained Age	Years of Credited Service									
	Under 1	1 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	35 to 39	40 & up
Under 25	-	-	-	-	-	-	-	-	-	-
25 to 29	-	3 (*)	-	-	-	-	-	-	-	-
30 to 34	-	-	1 (*)	1 (*)	-	-	-	-	-	-
35 to 39	-	-	5 (*)	-	-	-	-	-	-	-
40 to 44	-	2 (*)	1 (*)	-	-	-	-	-	-	-
45 to 49	-	1 (*)	3 (*)	2 (*)	1 (*)	1 (*)	-	-	-	-
50 to 54	-	-	4 (*)	1 (*)	1 (*)	-	2 (*)	-	-	-
55 to 59	-	-	1 (*)	-	-	-	2 (*)	-	-	-
60 to 64	-	-	-	-	2 (*)	-	1 (*)	-	-	-
65 to 69	-	-	-	-	-	-	1 (*)	-	-	-
70 & up	-	-	-	-	-	-	-	-	-	-

* Average annual accrued benefit is not shown since there are fewer than 1,000 active participants in this plan

Schedule SB, Line 22 – Description of Weighted Average Retirement Age
Pension Plan for Hourly Bargaining Unit Employees of Technisand – Troy Grove
January 1, 2019 Valuation
EIN/PN: 34-1684239 / 001

Rates of Retirement

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55	2%	5%
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61	10	10
62	16	25
63	12	25
64	35	25
65	100	100

Terminated Vested participants and Deferred Beneficiaries are assumed to commence at Normal Retirement Date.

Rationale: Based on an experience study completed in 2016.

Weighted Average Retirement Age is 63. This is the average retirement age for someone eligible to retire at all ages using the assumed retirement rates and no other decrements.

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1/01/1998 to 12/31/1998	18.00
1/01/1999 to 12/31/1999	19.00
1/01/2000 to 11/24/2000	20.00
11/25/2000 to 11/21/2003	21.00
11/22/2003 to 11/21/2004	22.00
11/22/2004 to 11/21/2005	23.00
11/22/2005 to 11/21/2006	24.00

Appendix A (Continued)

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	11/22/2007 to 11/21/2008	26.00
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	11/22/2011 to 11/21/2012	30.00
	11/22/2012 to 11/21/2013	31.00
	11/22/2013 to 11/21/2014	32.00
	11/22/2014 and after	33.00

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Eligibility:

Age 65 or, if later, fifth anniversary of joining the Plan.

Monthly Benefit:

The Accrued Benefit.

Early Retirement Benefit

Eligibility:

Age 55 and 10 years of Vesting Service or 25 years of Vesting Service and attainment of 75 points.

Monthly Benefit:

The Accrued Benefit at early retirement reduced by 0.5% for each month retirement precedes age 65. No reduction if the participant is eligible under the 25 years of vesting and 75 points provision.

Disability Retirement Benefit

Eligibility:

Permanent and total disability after completion of at least 10 years of Vesting Service.

Monthly Benefit:

The Accrued Benefit.

Appendix A (Continued)

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Eligibility:

Upon termination of employment prior to retirement but after completion of at least five years of Vesting Service a participant is 100% vested.

Monthly Benefit:

The vested benefit commences in full at age 65, or in a reduced amount under the early retirement provisions if at least 10 years of Vesting Service had been completed.

Death Benefit

Eligibility:

100% vested and married for at least one year.

Monthly Benefit:

A monthly benefit for life commencing at the time the participant would have been eligible for retirement. The benefit is equal to 50% of the benefit vested on the date of death, adjusted as appropriate for early commencement and the 50% Joint and Survivor Annuity form of payment.

Optional Forms Available

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Optional forms are determined using the 1994 Group Reserve Table (male and female) for mortality and 5.5% interest.

Benefits Available as Lump Sums

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Changes in Plan Provisions

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