

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

2024

This Form is Open to Public Inspection

Part I Annual Report Identification Information

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

- A This return/report is for: [X] a single-employer plan [] a multiple-employer plan (not multiemployer) (Pension Plan filers checking this box must attach Schedule MEP. Other plans must attach a list of participating employer information in accordance with the form instructions.)
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)
D If the plan is a collectively-bargained plan, check here []
E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here []

Part II Basic Plan Information—enter all requested information

1a Name of plan: QUANTUM ANALYTICAL SERVICES, INC. PENSION PLAN
1b Three-digit plan number (PN): 002
1c Effective date of plan: 01/01/2007
2a Plan sponsor's name (employer, if for a single-employer plan): QUANTUM ANALYTICAL SERVICES, INC.
2b Employer Identification Number (EIN): 33-0973186
2c Sponsor's telephone number: 310-830-2226
2d Business code (see instructions): 541330
3a Plan administrator's name and address: [X] Same as Plan Sponsor.
3b Administrator's EIN
3c Administrator's telephone number
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
4d PN
5a Total number of participants at the beginning of the plan year: 2
5b Total number of participants at the end of the plan year: 2
5c(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)
5c(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)
5d(1) Total number of active participants at the beginning of the plan year: 2
5d(2) Total number of active participants at the end of the plan year: 2
5e Number of participants who terminated employment during the plan year with accrued benefits that were less than 100% vested: 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.

Table with 4 columns: SIGN HERE, Signature of plan administrator, Date, ANDREW KITTO. Second row: SIGN HERE, Signature of employer/plan sponsor, Date, ANDREW KITTO.

- 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 _____ (See instructions.)

Part III Financial Information			
7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	3380658	3368174
b Total plan liabilities	7b		
c Net plan assets (subtract line 7b from line 7a)	7c	3380658	3368174
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers	8a(1)	110000	
(2) Participants	8a(2)		
(3) Others (including rollovers)	8a(3)		
b Other income (loss)	8b	-122484	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		-12484
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		
g Other expenses	8g		
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		
i Net income (loss) (subtract line 8h from line 8c)	8i		-12484
j Transfers to (from) the plan (see instructions)	8j		

Part IV Plan Characteristics	
9a	If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions: 1A 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	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? Continue to answer "Yes" for any prior year failures until fully corrected. (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		90000
d Did the plan have a loss, whether or not reimbursed by the plan's fidelity bond, that was caused by fraud or dishonesty?	10d		X	
e Were any fees or commissions paid to any brokers, agents, or other persons by an insurance carrier, insurance service, or other organization that provides some or all of the benefits under the plan? (See instructions.)	10e		X	
f Has the plan failed to provide any benefit when due under the plan?	10f		X	
g Did the plan have any participant loans? (If "Yes," enter amount as of year-end.)	10g		X	
h If this is an individual account plan, was there a blackout period? (See instructions and 29 CFR 2520.101-3.)	10h		X	
i If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3	10i			

Part VI Pension Funding Compliance

11 Is this a defined benefit plan subject to minimum funding requirements? (If "Yes," see instructions and complete Schedule SB (Form 5500) and lines 11a and b below.) If this is a defined contribution pension plan, leave line 11 blank and complete 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

a 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)

Part VIII IRS Compliance Questions

14a Does the plan satisfy the coverage and nondiscrimination tests of Code sections 410(b) and 401(a)(4) by combining this plan with any other plans under the permissive aggregation rules? Yes No

14b If this is a Code section 401(k) plan, check all boxes that apply to indicate how the plan is intended to satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under Code sections 401(k)(3) and 401(m)(2).
 Design-based safe harbor method
 "Prior year" ADP test
 "Current year" ADP test
 N/A

15 If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter 02 / 28 / 2023 (MM/DD/YYYY) and the Opinion Letter serial number Q705143A.

SCHEDULE SB (Form 5500) <small>Department of the Treasury Internal Revenue Service</small> <small>Department of Labor Employee Benefits Security Administration</small> <small>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.	<small>OMB No. 1210-0110</small> 2024 This Form is Open to Public Inspection
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

▶ **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>QUANTUM ANALYTICAL SERVICES, INC. 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>QUANTUM ANALYTICAL SERVICES, INC.</u>	D Employer Identification Number (EIN) <u>33-0973186</u>	
E Type of plan: <input checked="" type="checkbox"/> Single <input type="checkbox"/> Multiple-A <input type="checkbox"/> Multiple-B	F Prior year plan size: <input checked="" type="checkbox"/> 100 or fewer <input type="checkbox"/> 101-500 <input type="checkbox"/> More than 500	

Part I Basic Information

1	Enter the valuation date: Month <u>12</u> Day <u>31</u> Year <u>2024</u>		
2	Assets:		
	a Market value	2a	<u>3258174</u>
	b Actuarial value	2b	<u>3258174</u>
3	Funding target/participant count breakdown	(1) Number of participants	(2) Vested Funding Target
	a For retired participants and beneficiaries receiving payment	<u>0</u>	<u>0</u>
	b For terminated vested participants	<u>0</u>	<u>0</u>
	c For active participants	<u>2</u>	<u>2451438</u>
	d Total	<u>2</u>	<u>2451438</u>
4	If the plan is in at-risk status, check the box and complete lines (a) and (b)..... <input type="checkbox"/>		
	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>5.33 %</u>
6	Target normal cost		
	a Present value of current plan year accruals	6a	<u>0</u>
	b Expected plan-related expenses	6b	<u>0</u>
	c Target normal cost	6c	<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>05/27/2025</u>
<u>HUNG-HSUN CHENG</u>	Date
Type or print name of actuary	<u>23-06724</u>
<u>ALLIED CONSULTANTS, INC.</u>	Most recent enrollment number
Firm name	<u>909-393-4912</u>
<u>14768 PIPELINE AVE.</u> <u>CHINO HILLS, CA 91709</u>	Telephone number (including area code)
Address of the firm	

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

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>-3.65</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)		98699
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>5.12</u> %		0
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		98699
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	132.90 %
15	Adjusted funding target attainment percentage	15	132.90 %
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	127.72 %
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
03/15/2025	110000	0			
			Totals ▶	18(b)	18(c)
				110000	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 108848
20	Quarterly contributions and liquidity shortfalls:	
a	Did the plan have a "funding shortfall" for the prior year?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
b	If line 20a is "Yes," were required quarterly installments for the current year made in a timely manner?	<input type="checkbox"/> Yes <input type="checkbox"/> 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: 5.01 %	2nd segment: 5.26 %	3rd segment: 5.59 %	<input type="checkbox"/> N/A, full yield curve used
b Applicable month (enter code)				21b 0
22 Weighted average retirement age				22 65
23 Mortality table(s) (see instructions)	<input checked="" type="checkbox"/> Prescribed - combined <input type="checkbox"/> Prescribed - separate <input type="checkbox"/> 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.....	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
25 Has a method change been made for the current plan year? If "Yes," see instructions regarding required attachment.....	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
26 Demographic and benefit information				
a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment.....	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			
b Is the plan required to provide a projection of expected benefit payments? If "Yes," see instructions regarding required attachment ...	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 6c)				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 108848
38 Present value of excess contributions for current year (see instructions)				
a Total (excess, if any, of line 37 over line 36)				38a 108848
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 the American Rescue Plan Act of 2021 (See Instructions)				
41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. <input type="checkbox"/> 2019 <input type="checkbox"/> 2020 <input type="checkbox"/> 2021				

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).

OMB Nos 1210-0110
1210-0089

2024

This Form is Open to Public Inspection

▶ **Complete all entries in accordance with the instructions to the Form 5500-SF.**

Part I Annual Report Identification Information

For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

A This return/report is for: a single-employer plan a multiple-employer plan (not multiemployer) (Pension plan filers checking this box must attach Schedule MEP. Other plans must attach a list of participating employer information in accordance with the form instructions.)

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)

D If the plan is a collectively-bargained plan, check here ▶

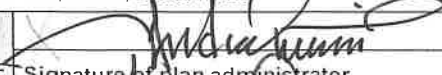
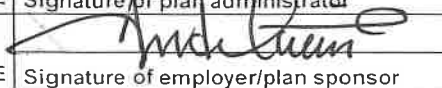
E If this is a retroactively adopted plan permitted by SECURE Act section 201, check here ▶

Part II Basic Plan Information --- enter all requested information

1a Name of plan Quantum Analytical Services, Inc. Pension Plan		1b Three-digit plan number (PN) ▶	002
		1c Effective date of plan	01/01/2007
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) Quantum Analytical Services, Inc. 1210 E 223rd Street, #314 US Carson CA 90745		2b Employer Identification Number (EIN)	33-0973186
		2c Sponsor's telephone number (310)	830-2226
		2d Business code (see instructions)	541330
3a Plan administrator's name and address <input checked="" type="checkbox"/> Same as Plan Sponsor		3b Administrator's EIN	
		3c Administrator's telephone number	
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. a Sponsor's name c Plan Name		4b EIN	
		4d PN	
5a Total number of participants at the beginning of the plan year		5a	2
b Total number of participants at the end of the plan year		5b	2
c(1) Number of participants with account balances as of the beginning of the plan year (only defined contribution plans complete this item)		5c(1)	
c(2) Number of participants with account balances as of the end of the plan year (only defined contribution plans complete this item)		5c(2)	
d(1) Total number of active participants at the beginning of the plan year		5d(1)	2
d(2) Total number of active participants at the end of the plan year		5d(2)	2
e Number of participants who 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		6/2/25	Andrew Kitto
	Signature of plan administrator	Date	Enter name of individual signing as plan administrator
SIGN HERE		6/2/25	Andrew Kitto
	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
- 6b 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.
- 6c 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 year _____ (See instructions.)

Part III Financial Information

7 Plan Assets and Liabilities		(a) Beginning of Year	(b) End of Year
a Total plan assets	7a	3,380,658	3,368,174
b Total plan liabilities	7b		
c Net plan assets (subtract line 7b from line 7a)	7c	3,380,658	3,368,174
8 Income, Expenses, and Transfers for this Plan Year		(a) Amount	(b) Total
a Contributions received or receivable from:			
(1) Employers	8a(1)	110,000	
(2) Participants	8a(2)		
(3) Others (including rollovers)	8a(3)		
b Other income (loss)	8b	(122,484)	
c Total income (add lines 8a(1), 8a(2), 8a(3), and 8b)	8c		(12,484)
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		
g Other expenses	8g		
h Total expenses (add lines 8d, 8e, 8f, and 8g)	8h		
i Net income (loss) (subtract line 8h from line 8c)	8i		(12,484)
j Transfers to (from) the plan (see instructions)	8j		

Part IV Plan Characteristics

- 9a If the plan provides pension benefits, enter the applicable pension feature codes from the List of Plan Characteristic Codes in the instructions:
1A 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	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? Continue to answer "Yes" for any prior year failures until fully corrected. (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		90,000
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		X	
i If 10h was answered "Yes," check the box if you either provided the required notice or one of the exceptions to providing the notice applied under 29 CFR 2520.101-3	10i			

Part VI Pension Funding Compliance

11 Is this a defined benefit plan subject to minimum funding requirements? (If "Yes," see instructions and complete Schedule SB (Form 5500) and lines 11a and b below.) If this is a defined contribution pension plan, leave line 11 blank and complete 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 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?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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)
		

Part VIII IRS Compliance Questions

14a Does the plan satisfy the coverage and nondiscrimination tests of Code sections 410(b) and 401(a)(4) by combining this plan with any other plans under the permissive aggregation rules? Yes No

14b If this is a Code section 401(k) plan, check all boxes that apply to indicate how the plan is intended to satisfy the nondiscrimination requirements for employee deferrals and employer matching contributions (as applicable) under Code sections 401(k)(3) and 401(m)(2).

- Design-based safe harbor method
- "Prior year" ADP test
- "Current year" ADP test
- N/A

15 If the plan sponsor is an adopter of a pre-approved plan that received a favorable IRS Opinion Letter, enter the date of the Opinion Letter 02/28/2023 (MM/DD/YYYY) and the Opinion Letter serial number Q705143a

**Schedule SB, line 22 -
Description of Weighted Average Retirement Age**

Quantum Analytical Services, Inc. Pension Plan

33-0973186 / 002

For the plan year 01/01/2024 through 12/31/2024

The age reported is the weighted average of the assumed retirement ages for all active participants as of the valuation date based on their funding target or target normal cost should the funding target of the plan be zero rounded to the nearest whole age. For an active late retiree, the assumed retirement age may be later than the Plan's normal retirement age. Each participant's rate of retirement is assumed to be 100% of his/her assumed retirement age.

Schedule SB, line 19 -
Discounted Employer Contributions
Quantum Analytical Services, Inc. Pension Plan
33-0973186 / 002
For the plan year 01/01/2024 through 12/31/2024
Valuation Date: 12/31/2024

	Date	Amount	Adjusted Contribution	Adjusted Prior Year Contribution	Adjusted Quarterly	Effective Rate	Penalty Rate
Deposited Contribution	03/15/2025	\$110,000					
Applied to Additional Contribution	12/31/2024	110,000	108,848	0	0	5.33	0.00
Totals for Deposited Contribution		\$110,000	\$108,848	\$0	\$0		

Schedule SB, Part V Statement of Actuarial Assumptions/Methods

Quantum Analytical Services, Inc. Pension Plan 33-0973186 / 002

For the plan year 01/01/2024 through 12/31/2024

Valuation Date: 12/31/2024

Funding Method: As prescribed in IRC Section 430
Age - Eligibility age at last birthday and other ages at nearest birthday

Retrospective Compensation - Highest 3 consecutive years of service

Form of Payment - Assumed form of payment for funding is lump sum equivalent of normal form. Funding Target for lump sum is the greater of the present value of accrued benefit computed using funding segment rates and 417(e) Applicable Mortality Table or lump sum at the assumed retirement date of accrued benefit using plan actuarial equivalence discounted using appropriate segment rate. Lump sum on plan actuarial equivalence rates will not exceed 415 maximum allowable distribution, which is the lesser amount computed using a) 5.5% interest and the Applicable Mortality Table or b) the greater of plan actuarial equivalence interest and mortality or 417(e) Minimum

Interest Rates -

Segment rates for the Valuation Date as permitted under IRC 430(h)(2)(C)

Segment #	Year	Rate %
Segment 1	0 - 5	5.01
Segment 2	6 - 20	5.26
Segment 3	> 20	5.36

Segment rates as of September 30, 2023 As permitted under IRC 430(h)(2)(C)(iv)(II) - ARP

Segment #	Year	Rate %
Segment 1	0 - 5	5.01
Segment 2	6 - 20	5.26
Segment 3	> 20	5.59

Pre-Retirement - Mortality Table - None
Improvement Scale - None
Early Retirement Table - None
Turnover Table - None
Disability Table - None
Salary Scale - None
Expense Load - None
Ancillary Ben Load - None

Post-Retirement - Mortality Table - 24C - 2024 Combined
Improvement Scale - None
Cost of Living - None
Lump Sum - 183F - 1983 Individual Annuity (female) at 6%
or
24E - 2024 Applicable Mortality Table for 417(e) (unisex)

Asset Valuation Method: Fair market value of assets adjusted for contributions under IRC 430(g)(4)

Discrimination Test Assumptions:

HCE Determination - Based on all employees
Otherwise Excludable - Otherwise Excludable HCEs are included with the Not Otherwise Excludable employees

Schedule SB, Part V

Statement of Actuarial Assumptions/Methods

Quantum Analytical Services, Inc. Pension Plan

33-0973186 / 002

For the plan year 01/01/2024 through 12/31/2024

410(b)/401(a)(4) Testing:

Pre-Retirement - Interest - 8.5%

Post-Retirement - Interest - 8.5%

Mortality Table - U84 - 1984 Unisex

Permissively Aggregated Plans - Tested as a Single Plan

Compensation - Use current compensation to calculate the benefit accrual rate (annual method)

Testing Age - Normal retirement age or attained age, if older

Testing Service - Separate benefiting service for DC and for DB for Accrued-to-Date Method

Normal Form for MVAR - Joint with 50% Survivor Benefits

401(a)(26) Testing:

Compensation - Use current compensation to calculate the benefit accrual rate for 401(a)(26)

Testing Age - Normal retirement age or attained age, if older

Schedule SB, Part V Summary of Plan Provisions

Quantum Analytical Services, Inc. Pension Plan 33-0973186 / 002 For the plan year 01/01/2024 through 12/31/2024

<u>Employer:</u>	Quantum Analytical Services, Inc.								
Type of Entity -	S Corporation								
	EIN: 33-0973186 TIN: 26-6093726 Plan #: 002 Plan Type: Defined Benefit								
<u>Dates:</u>	Effective - 01/01/2007 Valuation - 12/31/2024								
	Top Heavy Years - 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024								
<u>Eligibility:</u>	All employees excluding non-resident aliens, members of an excluded class, union, and excluding members of Cls - "A"								
	Minimum age - 21 Months of service - 24								
Hours Required for -	Eligibility - 1000 Benefit accrual - 1000 Vesting - 1000								
Plan Entry -	First day of 1st or 7th month of plan year on or next following eligibility satisfaction								
<u>Retirement:</u>	Normal - Attainment of age 62 and completion of 5 years of participation								
	Early - Not provided								
<u>Average Compensation:</u>	Highest 3 consecutive years of service								
Top Heavy Minimum Benefit -	Highest 5 consecutive top heavy years of participation								
<u>Plan Benefits:</u>	Retirement - Derived from the graded benefit formula below rounded to the nearest dollar:								
	<table border="0" style="width: 100%;"> <thead> <tr> <th style="text-align: left;">Employee Classification</th> <th style="text-align: left;">Benefit Formula</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>per year of service</td> </tr> <tr> <td>B</td> <td>3% of average monthly compensation per year of service</td> </tr> <tr> <td>C</td> <td>3.5% of average monthly compensation per year of service</td> </tr> </tbody> </table>	Employee Classification	Benefit Formula	A	per year of service	B	3% of average monthly compensation per year of service	C	3.5% of average monthly compensation per year of service
Employee Classification	Benefit Formula								
A	per year of service								
B	3% of average monthly compensation per year of service								
C	3.5% of average monthly compensation per year of service								
Accrued Benefit -	Pro-rata based on service								
	Minimum Benefit - None								
	Maximum Benefit - None								
	Maximum allowable distribution is lump sum equivalent of normal form not to exceed 415 maximum allowable distribution, which is the lesser amount computed using a) 5.5% interest and the Applicable Mortality Table or b) the greater of plan actuarial equivalence interest and mortality or 417(e) Minimum								
Early Retirement -	None								
Death Benefit -	Present Value of Accrued Benefit								
Disability Benefit -	None								
<u>Top Heavy Minimum:</u>	Provided in another plan								
<u>IRS Limitations:</u>	415 Limits - Percent: 100 Dollar: \$275,000								
	Maximum 401(a)(17) compensation - \$345,000								
<u>Normal Form:</u>	Life Annuity								
<u>Optional Forms:</u>	Lump Sum Life Annuity Guaranteed for 10 Years Joint with 50%, 75% or 100% Survivor Benefit								

Schedule SB, Part V Summary of Plan Provisions

Quantum Analytical Services, Inc. Pension Plan
33-0973186 / 002
For the plan year 01/01/2024 through 12/31/2024

Vesting Schedule:

Years	Percent
0-1	0%
2	20%
3	40%
4	60%
5	80%
6	100%

Service is calculated using all years of service except years prior to plan effective date

Present Value of Accrued Benefit: Based on the greater of 417(e) or Actuarial Equivalence

417(e):

Interest Rates -	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="3" style="text-align: left; padding: 2px;">First Month Prior to Plan Yr Beg</th> </tr> <tr> <th style="text-align: left; padding: 2px;">Segment #</th> <th style="text-align: left; padding: 2px;">Years</th> <th style="text-align: left; padding: 2px;">Rate %</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">Segment 1</td> <td style="padding: 2px;">0 - 5</td> <td style="padding: 2px;">5.01</td> </tr> <tr> <td style="padding: 2px;">Segment 2</td> <td style="padding: 2px;">6 - 20</td> <td style="padding: 2px;">5.13</td> </tr> <tr> <td style="padding: 2px;">Segment 3</td> <td style="padding: 2px;">> 20</td> <td style="padding: 2px;">5.15</td> </tr> </tbody> </table>	First Month Prior to Plan Yr Beg			Segment #	Years	Rate %	Segment 1	0 - 5	5.01	Segment 2	6 - 20	5.13	Segment 3	> 20	5.15
First Month Prior to Plan Yr Beg																
Segment #	Years	Rate %														
Segment 1	0 - 5	5.01														
Segment 2	6 - 20	5.13														
Segment 3	> 20	5.15														

Mortality Table - 24E - 2024 Applicable Mortality Table for 417(e) (unisex)

Actuarial Equivalence:

Pre-Retirement -	Interest -	6%
	Mortality Table -	None
Post-Retirement -	Interest -	6%
	Mortality Table -	I83F - 1983 Individual Annuity (female)

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.	<small>OMB No 1210-0110</small> 2024 This Form is Open to Public Inspection
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For calendar plan year 2024 or fiscal plan year beginning 01/01/2024 and ending 12/31/2024

▶ 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 Quantum Analytical Services, Inc. Pension Plan	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:70%;">B Three-digit plan number (PN) ▶</td> <td style="width:30%; text-align: center;">002</td> </tr> <tr> <td colspan="2" style="background-color: #cccccc;"> </td> </tr> </table>	B Three-digit plan number (PN) ▶	002		
B Three-digit plan number (PN) ▶	002				
C Plan sponsor's name as shown on line 2a of Form 5500 or 5500-SF Quantum Analytical Services, Inc.	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>D Employer Identification Number (EIN) 33-0973186</td> </tr> </table>	D Employer Identification Number (EIN) 33-0973186			
D Employer Identification Number (EIN) 33-0973186					

E Type of plan: Single Multiple-A Multiple-B Other **F** Prior year plan size: 100 or fewer 101-500 More than 500

Part I Basic Information

1	Enter the valuation date: Month <u>12</u> Day <u>31</u> Year <u>2024</u>		
2	Assets:		
	a Market value	2a	3,258,174
	b Actuarial value	2b	3,258,174
3	Funding target/participant count breakdown:	(1) Number of participants	(2) Vested Funding Target
	a For retired participants and beneficiaries receiving payment	0	0
	b For terminated vested participants	0	0
	c For active participants	2	2,451,438
	d Total	2	2,451,438
4	If the plan is in at-risk status, check the box and complete lines (a) and (b) <input type="checkbox"/>		
	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	5.33 %
6	Target normal cost		
	a Present value of current plan year accruals	6a	0
	b Expected plan-related expenses	6b	0
	c Target normal cost	6c	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.

<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td style="width:15%; text-align: center; vertical-align: middle;">SIGN HERE</td> <td style="width:45%; text-align: center; vertical-align: middle;"> </td> <td style="width:40%;"></td> </tr> <tr> <td></td> <td style="text-align: center;">Signature of actuary</td> <td style="text-align: center;">05/27/2025</td> </tr> <tr> <td></td> <td style="text-align: center;">Hung-Hsun Cheng</td> <td style="text-align: center;">Date</td> </tr> <tr> <td></td> <td style="text-align: center;">Type or print name of actuary</td> <td style="text-align: center;">23-06724</td> </tr> <tr> <td></td> <td style="text-align: center;">Allied Consultants, Inc.</td> <td style="text-align: center;">Most recent enrollment number</td> </tr> <tr> <td></td> <td style="text-align: center;">Firm name</td> <td style="text-align: center;">(909) 393-4912</td> </tr> <tr> <td></td> <td style="text-align: center;">14768 Pipeline Ave.</td> <td style="text-align: center;">Telephone number (including area code)</td> </tr> <tr> <td></td> <td style="text-align: center;">US Chino Hills CA 91709</td> <td></td> </tr> <tr> <td></td> <td style="text-align: center;">Address of the firm</td> <td></td> </tr> </table>	SIGN HERE				Signature of actuary	05/27/2025		Hung-Hsun Cheng	Date		Type or print name of actuary	23-06724		Allied Consultants, Inc.	Most recent enrollment number		Firm name	(909) 393-4912		14768 Pipeline Ave.	Telephone number (including area code)		US Chino Hills CA 91709			Address of the firm		
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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

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>-3.65%</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)		98,699
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>5.12%</u> ...		0
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		98,699
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	132.90 %
15 Adjusted funding target attainment percentage	15	132.90 %
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	127.72 %
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
03/15/2025	110,000	0			
Totals ▶			18(b)	110,000	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	108,848

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: 5.01 %	2nd segment: 5.26 %	3rd segment: 5.59 %	<input type="checkbox"/> N/A, full yield curve used
------------------	------------------------	------------------------	------------------------	---

b Applicable month (enter code) **21b** 0

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 Demographic and benefit information

a Is the plan required to provide a Schedule of Active Participants? If "Yes," see instructions regarding required attachment Yes No

b Is the plan required to provide a projection of expected benefit payments? 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 6c) **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)			37 108,848
38 Present value of excess contributions for current year (see instructions)			
a Total (excess, if any, of line 37 over line 36)			38a 108,848
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 the American Rescue Plan Act of 2021 (See Instructions)

41 If an election was made to use the extended amortization rule for a plan year beginning on or before December 31, 2021, check the box to indicate the first plan year for which the rule applies. 2019 2020 2021