

EXTENDED TO NOVEMBER 15, 2022

Return of Private Foundation

or Section 4947(a)(1) Trust Treated as Private Foundation

OMB No. 1545-0047

2021

Open to Public Inspection

Form 990-PF

Department of the Treasury
Internal Revenue ServiceDo not enter social security numbers on this form as it may be made public.
Go to www.irs.gov/Form990PF for instructions and the latest information.

For calendar year 2021 or tax year beginning

, and ending

Name of foundation AMATEUR RADIO DIGITAL COMMUNICATIONS		A Employer identification number 45-3751971
Number and street (or P.O. box number if mail is not delivered to street address) 5663 BALBOA AVE	Room/suite 432	B Telephone number 619-693-2246
City or town, state or province, country, and ZIP or foreign postal code SAN DIEGO, CA 92111		C If exemption application is pending, check here <input type="checkbox"/>
G Check all that apply: <input type="checkbox"/> Initial return <input type="checkbox"/> Initial return of a former public charity <input type="checkbox"/> Final return <input type="checkbox"/> Amended return <input type="checkbox"/> Address change <input type="checkbox"/> Name change		D 1. Foreign organizations, check here <input type="checkbox"/>
H Check type of organization: <input checked="" type="checkbox"/> Section 501(c)(3) exempt private foundation <input type="checkbox"/> Section 4947(a)(1) nonexempt charitable trust <input type="checkbox"/> Other taxable private foundation		2. Foreign organizations meeting the 85% test, check here and attach computation <input type="checkbox"/>
I Fair market value of all assets at end of year (from Part II, col. (c), line 16) \$ 139,030,662.	J Accounting method: <input type="checkbox"/> Cash <input checked="" type="checkbox"/> Accrual <input type="checkbox"/> Other (specify) _____	E If private foundation status was terminated under section 507(b)(1)(A), check here <input type="checkbox"/>
(Part I, column (d), must be on cash basis.)		F If the foundation is in a 60-month termination under section 507(b)(1)(B), check here <input type="checkbox"/>

Part I Analysis of Revenue and Expenses (The total of amounts in columns (b), (c), and (d) may not necessarily equal the amounts in column (a).)		(a) Revenue and expenses per books	(b) Net investment income	(c) Adjusted net income	(d) Disbursements for charitable purposes (cash basis only)
Revenue	1 Contributions, gifts, grants, etc., received				
	2 Check <input checked="" type="checkbox"/> if the foundation is not required to attach Sch. B				
	3 Interest on savings and temporary cash investments				
	4 Dividends and interest from securities	2,095,097.	2,095,097.	2,095,097.	STATEMENT 1
	5a Gross rents				
	b Net rental income or (loss)				
	6a Net gain or (loss) from sale of assets not on line 10				
	b Gross sales price for all assets on line 6a				
	7 Capital gain net income (from Part IV, line 2)		0.		
	8 Net short-term capital gain				
	9 Income modifications				
	10a Gross sales less returns and allowances				
b Less: Cost of goods sold					
c Gross profit or (loss)					
11 Other income					
12 Total. Add lines 1 through 11	2,095,097.	2,095,097.	2,095,097.		
Operating and Administrative Expenses	13 Compensation of officers, directors, trustees, etc.	120,839.	0.	0.	120,839.
	14 Other employee salaries and wages	140,856.	0.	0.	140,856.
	15 Pension plans, employee benefits	8,211.	0.	0.	8,211.
	16a Legal fees STMT 2	14,993.	0.	0.	14,993.
	b Accounting fees STMT 3	8,750.	0.	0.	8,750.
	c Other professional fees				
	17 Interest				
	18 Taxes STMT 4	269,691.	0.	0.	0.
	19 Depreciation and depletion				
	20 Occupancy				
	21 Travel, conferences, and meetings	42,473.	0.	0.	42,473.
	22 Printing and publications				
	23 Other expenses STMT 5	176,747.	0.	0.	176,747.
	24 Total operating and administrative expenses. Add lines 13 through 23	782,560.	0.	0.	512,869.
	25 Contributions, gifts, grants paid	10,798,573.			9,247,203.
26 Total expenses and disbursements. Add lines 24 and 25	11,581,133.	0.	0.	9,760,072.	
27 Subtract line 26 from line 12:					
a Excess of revenue over expenses and disbursements	-9,486,036.				
b Net investment income (if negative, enter -0-)		2,095,097.			
c Adjusted net income (if negative, enter -0-)			2,095,097.		

Part II Balance Sheets		Attached schedules and amounts in the description column should be for end-of-year amounts only.		
		Beginning of year	End of year	
		(a) Book Value	(b) Book Value	(c) Fair Market Value
Assets	1 Cash - non-interest-bearing	21,104.	68,504.	68,504.
	2 Savings and temporary cash investments		77,535.	77,535.
	3 Accounts receivable			
	Less: allowance for doubtful accounts			
	4 Pledges receivable			
	Less: allowance for doubtful accounts			
	5 Grants receivable			
	6 Receivables due from officers, directors, trustees, and other disqualified persons			
	7 Other notes and loans receivable			
	Less: allowance for doubtful accounts			
	8 Inventories for sale or use			
	9 Prepaid expenses and deferred charges			
	10a Investments - U.S. and state government obligations STMT 6	13,911,861.	5,407,107.	5,407,107.
	b Investments - corporate stock			
	c Investments - corporate bonds			
Liabilities	11 Investments - land, buildings, and equipment: basis			
	Less: accumulated depreciation			
	12 Investments - mortgage loans			
	13 Investments - other STMT 7	114,479,401.	133,477,516.	133,477,516.
	14 Land, buildings, and equipment: basis			
	Less: accumulated depreciation			
	15 Other assets (describe)			
	16 Total assets (to be completed by all filers - see the instructions. Also, see page 1, item I)	128,412,366.	139,030,662.	139,030,662.
	17 Accounts payable and accrued expenses	75,684.	82,667.	
	18 Grants payable	200,907.	2,753,296.	
Net Assets or Fund Balances	19 Deferred revenue			
	20 Loans from officers, directors, trustees, and other disqualified persons			
	21 Mortgages and other notes payable			
	22 Other liabilities (describe DEFERRED TAXES)	277,422.	517,991.	
	23 Total liabilities (add lines 17 through 22)	554,013.	3,353,954.	
	Foundations that follow FASB ASC 958, check here <input checked="" type="checkbox"/> and complete lines 24, 25, 29, and 30.			
	24 Net assets without donor restrictions	127,858,353.	135,676,708.	
	25 Net assets with donor restrictions			
	Foundations that do not follow FASB ASC 958, check here <input type="checkbox"/> and complete lines 26 through 30.			
	26 Capital stock, trust principal, or current funds			
	27 Paid-in or capital surplus, or land, bldg., and equipment fund			
	28 Retained earnings, accumulated income, endowment, or other funds			
	29 Total net assets or fund balances	127,858,353.	135,676,708.	
	30 Total liabilities and net assets/fund balances	128,412,366.	139,030,662.	

Part III Analysis of Changes in Net Assets or Fund Balances

1 Total net assets or fund balances at beginning of year - Part II, column (a), line 29 (must agree with end-of-year figure reported on prior year's return)	1	127,858,353.
2 Enter amount from Part I, line 27a	2	-9,486,036.
3 Other increases not included in line 2 (itemize) UNREALIZED GAINS	3	17,304,391.
4 Add lines 1, 2, and 3	4	135,676,708.
5 Decreases not included in line 2 (itemize)	5	0.
6 Total net assets or fund balances at end of year (line 4 minus line 5) - Part II, column (b), line 29	6	135,676,708.

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Part IV Capital Gains and Losses for Tax on Investment Income

(a) List and describe the kind(s) of property sold (for example, real estate, 2-story brick warehouse; or common stock, 200 shs. MLC Co.)	(b) How acquired P - Purchase D - Donation	(c) Date acquired (mo., day, yr.)	(d) Date sold (mo., day, yr.)
1a			
b	NONE		
c			
d			
e			

(e) Gross sales price	(f) Depreciation allowed (or allowable)	(g) Cost or other basis plus expense of sale	(h) Gain or (loss) ((e) plus (f) minus (g))
a			
b			
c			
d			
e			

Complete only for assets showing gain in column (h) and owned by the foundation on 12/31/69.

(i) FMV as of 12/31/69	(j) Adjusted basis as of 12/31/69	(k) Excess of col. (i) over col. (j), if any	(l) Gains (Col. (h) gain minus col. (k), but not less than -0-) or Losses (from col. (h))
a			
b			
c			
d			
e			

2 Capital gain net income or (net capital loss)	<div> <div>If gain, also enter in Part I, line 7</div> <div>If (loss), enter -0- in Part I, line 7</div> </div>	2	
3 Net short-term capital gain or (loss) as defined in sections 1222(5) and (6): If gain, also enter in Part I, line 8, column (c). See instructions. If (loss), enter -0- in Part I, line 8		3	

Part V Excise Tax Based on Investment Income (Section 4940(a), 4940(b), or 4948 - see instructions)

1a Exempt operating foundations described in section 4940(d)(2), check here <input type="checkbox"/> and enter "N/A" on line 1. Date of ruling or determination letter: _____ (attach copy of letter if necessary - see instructions)	1	29,122.
b All other domestic foundations enter 1.39% (0.0139) of line 27b. Exempt foreign organizations, enter 4% (0.04) of Part I, line 12, col. (b)		
2 Tax under section 511 (domestic section 4947(a)(1) trusts and taxable foundations only; others, enter -0-)	2	0.
3 Add lines 1 and 2	3	29,122.
4 Subtitle A (income) tax (domestic section 4947(a)(1) trusts and taxable foundations only; others, enter -0-)	4	0.
5 Tax based on investment income. Subtract line 4 from line 3. If zero or less, enter -0-	5	29,122.
6 Credits/Payments:		
a 2021 estimated tax payments and 2020 overpayment credited to 2021	6a	25,320.
b Exempt foreign organizations - tax withheld at source	6b	0.
c Tax paid with application for extension of time to file (Form 8868)	6c	5,000.
d Backup withholding erroneously withheld	6d	0.
7 Total credits and payments. Add lines 6a through 6d	7	30,320.
8 Enter any penalty for underpayment of estimated tax. Check here <input type="checkbox"/> if Form 2220 is attached	8	244.
9 Tax due. If the total of lines 5 and 8 is more than 7, enter amount owed	9	
10 Overpayment. If line 7 is more than the total of lines 5 and 8, enter the amount overpaid	10	954.
11 Enter the amount of line 10 to be: Credited to 2022 estimated tax 954. Refunded	11	0.

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Part VI-A Statements Regarding Activities

	Yes	No
1a During the tax year, did the foundation attempt to influence any national, state, or local legislation or did it participate or intervene in any political campaign?		X
b Did it spend more than \$100 during the year (either directly or indirectly) for political purposes? See the instructions for the definition If the answer is "Yes" to 1a or 1b , attach a detailed description of the activities and copies of any materials published or distributed by the foundation in connection with the activities.		X
c Did the foundation file Form 1120-POL for this year?		X
d Enter the amount (if any) of tax on political expenditures (section 4955) imposed during the year: (1) On the foundation. ▶ \$ <u>0.</u> (2) On foundation managers. ▶ \$ <u>0.</u>		
e Enter the reimbursement (if any) paid by the foundation during the year for political expenditure tax imposed on foundation managers. ▶ \$ <u>0.</u>		
2 Has the foundation engaged in any activities that have not previously been reported to the IRS? If "Yes," attach a detailed description of the activities.		X
3 Has the foundation made any changes, not previously reported to the IRS, in its governing instrument, articles of incorporation, or bylaws, or other similar instruments? If "Yes," attach a conformed copy of the changes		X
4a Did the foundation have unrelated business gross income of \$1,000 or more during the year?		X
b If "Yes," has it filed a tax return on Form 990-T for this year? N/A		
5 Was there a liquidation, termination, dissolution, or substantial contraction during the year? If "Yes," attach the statement required by <i>General Instruction T</i> .		X
6 Are the requirements of section 508(e) (relating to sections 4941 through 4945) satisfied either: • By language in the governing instrument, or • By state legislation that effectively amends the governing instrument so that no mandatory directions that conflict with the state law remain in the governing instrument?	X	
7 Did the foundation have at least \$5,000 in assets at any time during the year? If "Yes," complete Part II, col. (c), and Part XIV	X	
8a Enter the states to which the foundation reports or with which it is registered. See instructions. ▶ <u>CA</u>		
b If the answer is "Yes" to line 7, has the foundation furnished a copy of Form 990-PF to the Attorney General (or designate) of each state as required by <i>General Instruction G</i> ? If "No," attach explanation	X	
9 Is the foundation claiming status as a private operating foundation within the meaning of section 4942(j)(3) or 4942(j)(5) for calendar year 2021 or the tax year beginning in 2021? See the instructions for Part XIII. If "Yes," complete Part XIII		X
10 Did any persons become substantial contributors during the tax year? If "Yes," attach a schedule listing their names and addresses		X
11 At any time during the year, did the foundation, directly or indirectly, own a controlled entity within the meaning of section 512(b)(13)? If "Yes," attach schedule. See instructions		X
12 Did the foundation make a distribution to a donor advised fund over which the foundation or a disqualified person had advisory privileges? If "Yes," attach statement. See instructions		X
13 Did the foundation comply with the public inspection requirements for its annual returns and exemption application? Website address ▶ <u>HTTPS://WWW.AMPR.ORG/</u>	X	
14 The books are in care of ▶ <u>BDALE GARBEE, TREASURER</u> Telephone no. ▶ <u>619-693-2246</u> Located at ▶ <u>5663 BALBOA AVE SUITE 432, SAN DIEGO, CA</u> ZIP+4 ▶ <u>92111</u>		
15 Section 4947(a)(1) nonexempt charitable trusts filing Form 990-PF in lieu of Form 1041 - check here and enter the amount of tax-exempt interest received or accrued during the year ▶ <u>15</u> N/A		
16 At any time during calendar year 2021, did the foundation have an interest in or a signature or other authority over a bank, securities, or other financial account in a foreign country? See the instructions for exceptions and filing requirements for FinCEN Form 114. If "Yes," enter the name of the foreign country ▶		X

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Part VI-B Statements Regarding Activities for Which Form 4720 May Be Required

File Form 4720 if any item is checked in the "Yes" column, unless an exception applies.

1a During the year, did the foundation (either directly or indirectly):(1) Engage in the sale or exchange, or leasing of property with a disqualified person? ☐1a(1) Yes No **X**(2) Borrow money from, lend money to, or otherwise extend credit to (or accept it from) a disqualified person? ☐1a(2) Yes No **X**(3) Furnish goods, services, or facilities to (or accept them from) a disqualified person? ☐1a(3) Yes No **X**(4) Pay compensation to, or pay or reimburse the expenses of, a disqualified person? ☐1a(4) Yes **X** No(5) Transfer any income or assets to a disqualified person (or make any of either available for the benefit or use of a disqualified person)? ☐(6) Agree to pay money or property to a government official? (Exception. Check "No" if the foundation agreed to make a grant to or to employ the official for a period after termination of government service, if terminating within 90 days.) ☐1a(5) Yes No **X**1a(6) Yes No **X****b** If any answer is "Yes" to 1a(1)-(6), did any of the acts fail to qualify under the exceptions described in Regulations section 53.4941(d)-3 or in a current notice regarding disaster assistance? See instructions ☐1b Yes No **X****c** Organizations relying on a current notice regarding disaster assistance, check here ☐**d** Did the foundation engage in a prior year in any of the acts described in 1a, other than excepted acts, that were not corrected before the first day of the tax year beginning in 2021? ☐1d Yes No **X****2** Taxes on failure to distribute income (section 4942) (does not apply for years the foundation was a private operating foundation defined in section 4942(j)(3) or 4942(j)(5)):**a** At the end of tax year 2021, did the foundation have any undistributed income (Part XII, lines 6d and 6e) for tax year(s) beginning before 2021? ☐2a Yes No **X**If "Yes," list the years ☐**b** Are there any years listed in 2a for which the foundation is **not** applying the provisions of section 4942(a)(2) (relating to incorrect valuation of assets) to the year's undistributed income? (If applying section 4942(a)(2) to **all** years listed, answer "No" and attach statement - see instructions.) ☐

N/A

2b Yes No

c If the provisions of section 4942(a)(2) are being applied to **any** of the years listed in 2a, list the years here. ☐**3a** Did the foundation hold more than a 2% direct or indirect interest in any business enterprise at any time during the year? ☐3a Yes No **X****b** If "Yes," did it have excess business holdings in 2021 as a result of (1) any purchase by the foundation or disqualified persons after May 26, 1969; (2) the lapse of the 5-year period (or longer period approved by the Commissioner under section 4943(c)(7)) to dispose of holdings acquired by gift or bequest; or (3) the lapse of the 10-, 15-, or 20-year first phase holding period? (Use Form 4720, Schedule C, to determine if the foundation had excess business holdings in 2021.) ☐

N/A

3b Yes No

4a Did the foundation invest during the year any amount in a manner that would jeopardize its charitable purposes? ☐4a Yes No **X****b** Did the foundation make any investment in a prior year (but after December 31, 1969) that could jeopardize its charitable purpose that had not been removed from jeopardy before the first day of the tax year beginning in 2021? ☐4b Yes No **X**

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Part VI-B Statements Regarding Activities for Which Form 4720 May Be Required (continued)

5a During the year, did the foundation pay or incur any amount to:

- (1) Carry on propaganda, or otherwise attempt to influence legislation (section 4945(e))?
- (2) Influence the outcome of any specific public election (see section 4955); or to carry on, directly or indirectly, any voter registration drive?
- (3) Provide a grant to an individual for travel, study, or other similar purposes?
- (4) Provide a grant to an organization other than a charitable, etc., organization described in section 4945(d)(4)(A)? See instructions
- (5) Provide for any purpose other than religious, charitable, scientific, literary, or educational purposes, or for the prevention of cruelty to children or animals?

	Yes	No
5a(1)		X
5a(2)		X
5a(3)		X
5a(4)	X	
5a(5)		X

b If any answer is "Yes" to 5a(1)-(5), did any of the transactions fail to qualify under the exceptions described in Regulations section 53.4945 or in a current notice regarding disaster assistance? See instructions

5b	X	
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c Organizations relying on a current notice regarding disaster assistance, check here ☐d If the answer is "Yes" to question 5a(4), does the foundation claim exemption from the tax because it maintained expenditure responsibility for the grant? **SEE STATEMENT 9**

5d	X	
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If "Yes," attach the statement required by Regulations section 53.4945-5(d).

6a Did the foundation, during the year, receive any funds, directly or indirectly, to pay premiums on a personal benefit contract?

6a		X
----	--	---

b Did the foundation, during the year, pay premiums, directly or indirectly, on a personal benefit contract?

6b		X
----	--	---

If "Yes" to 6b, file Form 8870.

7a At any time during the tax year, was the foundation a party to a prohibited tax shelter transaction?

7a		X
----	--	---

b If "Yes," did the foundation receive any proceeds or have any net income attributable to the transaction? **N/A**

7b		
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8 Is the foundation subject to the section 4960 tax on payment(s) of more than \$1,000,000 in remuneration or excess parachute payment(s) during the year?

8		X
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Part VII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors**1** List all officers, directors, trustees, and foundation managers and their compensation.

(a) Name and address	(b) Title, and average hours per week devoted to position	(c) Compensation (If not paid, enter -0-)	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account, other allowances
SEE STATEMENT 8		112,140.	8,699.	0.

2 Compensation of five highest-paid employees (other than those included on line 1). If none, enter "NONE."

(a) Name and address of each employee paid more than \$50,000	(b) Title, and average hours per week devoted to position	(c) Compensation	(d) Contributions to employee benefit plans and deferred compensation	(e) Expense account, other allowances
NONE				

Total number of other employees paid over \$50,000

0

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Part VII Information About Officers, Directors, Trustees, Foundation Managers, Highly Paid Employees, and Contractors (continued)**3** Five highest-paid independent contractors for professional services. If none, enter "NONE."

(a) Name and address of each person paid more than \$50,000	(b) Type of service	(c) Compensation
OPEN TECH STRATEGIES 333 E. 102ND STREET #339, NEW YORK, NY 10029	TECHNICAL SUPPORT	80,000.

Total number of others receiving over \$50,000 for professional services 0

Part VIII-A Summary of Direct Charitable Activities

List the foundation's four largest direct charitable activities during the tax year. Include relevant statistical information such as the number of organizations and other beneficiaries served, conferences convened, research papers produced, etc.	Expenses
1 SUPPORTING, PROMOTING, AND ENHANCING AMATEUR RADIO DIGITAL COMMUNICATIONS AND BROADER COMMUNICATION SCIENCE AND TECHNOLOGY.	308,820.
2	
3	
4	

Part VIII-B Summary of Program-Related Investments

Describe the two largest program-related investments made by the foundation during the tax year on lines 1 and 2.	Amount
1 N/A	
2	
3 All other program-related investments. See instructions.	
Total. Add lines 1 through 3	0.

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Part IX Minimum Investment Return (All domestic foundations must complete this part. Foreign foundations, see instructions.)

1	Fair market value of assets not used (or held for use) directly in carrying out charitable, etc., purposes:		
a	Average monthly fair market value of securities	1a	135,399,893.
b	Average of monthly cash balances	1b	325,801.
c	Fair market value of all other assets (see instructions)	1c	
d	Total (add lines 1a, b, and c)	1d	135,725,694.
e	Reduction claimed for blockage or other factors reported on lines 1a and 1c (attach detailed explanation)	1e	0.
2	Acquisition indebtedness applicable to line 1 assets	2	0.
3	Subtract line 2 from line 1d	3	135,725,694.
4	Cash deemed held for charitable activities. Enter 1.5% (0.015) of line 3 (for greater amount, see instructions)	4	2,035,885.
5	Net value of noncharitable-use assets. Subtract line 4 from line 3	5	133,689,809.
6	Minimum investment return. Enter 5% (0.05) of line 5	6	6,684,490.

Part X Distributable Amount (see instructions) (Section 4942(j)(3) and (j)(5) private operating foundations and certain foreign organizations, check here ☐ and do not complete this part.)

1	Minimum investment return from Part IX, line 6	1	6,684,490.
2a	Tax on investment income for 2021 from Part V, line 5	2a	29,122.
b	Income tax for 2021. (This does not include the tax from Part V.)	2b	
c	Add lines 2a and 2b	2c	29,122.
3	Distributable amount before adjustments. Subtract line 2c from line 1	3	6,655,368.
4	Recoveries of amounts treated as qualifying distributions	4	0.
5	Add lines 3 and 4	5	6,655,368.
6	Deduction from distributable amount (see instructions)	6	0.
7	Distributable amount as adjusted. Subtract line 6 from line 5. Enter here and on Part XII, line 1	7	6,655,368.

Part XI Qualifying Distributions (see instructions)

1	Amounts paid (including administrative expenses) to accomplish charitable, etc., purposes:		
a	Expenses, contributions, gifts, etc. - total from Part I, column (d), line 26	1a	9,760,072.
b	Program-related investments - total from Part VIII-B	1b	0.
2	Amounts paid to acquire assets used (or held for use) directly in carrying out charitable, etc., purposes	2	
3	Amounts set aside for specific charitable projects that satisfy the:		
a	Suitability test (prior IRS approval required)	3a	
b	Cash distribution test (attach the required schedule)	3b	
4	Qualifying distributions. Add lines 1a through 3b. Enter here and on Part XII, line 4	4	9,760,072.

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Part XII Undistributed Income (see instructions)

	(a) Corpus	(b) Years prior to 2020	(c) 2020	(d) 2021
1 Distributable amount for 2021 from Part X, line 7				6,655,368.
2 Undistributed income, if any, as of the end of 2021:				
a Enter amount for 2020 only			2,618,415.	
b Total for prior years:		0.		
3 Excess distributions carryover, if any, to 2021:				
a From 2016				
b From 2017				
c From 2018				
d From 2019				
e From 2020				
f Total of lines 3a through e	0.			
4 Qualifying distributions for 2021 from Part XI, line 4: ▶ \$ 9,760,072.				
a Applied to 2020, but not more than line 2a ...			2,618,415.	
b Applied to undistributed income of prior years (Election required - see instructions) ...		0.		
c Treated as distributions out of corpus (Election required - see instructions)	0.			
d Applied to 2021 distributable amount				6,655,368.
e Remaining amount distributed out of corpus	486,289.			
5 Excess distributions carryover applied to 2021 (If an amount appears in column (d), the same amount must be shown in column (a).)	0.			0.
6 Enter the net total of each column as indicated below:				
a Corpus. Add lines 3f, 4c, and 4e. Subtract line 5	486,289.			
b Prior years' undistributed income. Subtract line 4b from line 2b		0.		
c Enter the amount of prior years' undistributed income for which a notice of deficiency has been issued, or on which the section 4942(a) tax has been previously assessed		0.		
d Subtract line 6c from line 6b. Taxable amount - see instructions		0.		
e Undistributed income for 2020. Subtract line 4a from line 2a. Taxable amount - see instr. ...			0.	
f Undistributed income for 2021. Subtract lines 4d and 5 from line 1. This amount must be distributed in 2022				0.
7 Amounts treated as distributions out of corpus to satisfy requirements imposed by section 170(b)(1)(F) or 4942(g)(3) (Election may be required - see instructions)	0.			
8 Excess distributions carryover from 2016 not applied on line 5 or line 7	0.			
9 Excess distributions carryover to 2022. Subtract lines 7 and 8 from line 6a	486,289.			
10 Analysis of line 9:				
a Excess from 2017 ...				
b Excess from 2018 ...				
c Excess from 2019 ...				
d Excess from 2020 ...				
e Excess from 2021 ...	486,289.			

Part XIII Private Operating Foundations (see instructions and Part VI-A, question 9)

N/A

1 a If the foundation has received a ruling or determination letter that it is a private operating foundation, and the ruling is effective for 2021, enter the date of the ruling ▶

b Check box to indicate whether the foundation is a private operating foundation described in section ☐ 4942(j)(3) or ☐ 4942(j)(5)

	Tax year	Prior 3 years			(e) Total
	(a) 2021	(b) 2020	(c) 2019	(d) 2018	
2 a Enter the lesser of the adjusted net income from Part I or the minimum investment return from Part IX for each year listed					
b 85% (0.85) of line 2a					
c Qualifying distributions from Part XI, line 4, for each year listed					
d Amounts included in line 2c not used directly for active conduct of exempt activities					
e Qualifying distributions made directly for active conduct of exempt activities. Subtract line 2d from line 2c					
3 Complete 3a, b, or c for the alternative test relied upon:					
a "Assets" alternative test - enter:					
(1) Value of all assets					
(2) Value of assets qualifying under section 4942(j)(3)(B)(i)					
b "Endowment" alternative test - enter 2/3 of minimum investment return shown in Part IX, line 6, for each year listed					
c "Support" alternative test - enter:					
(1) Total support other than gross investment income (interest, dividends, rents, payments on securities loans (section 512(a)(5)), or royalties)					
(2) Support from general public and 5 or more exempt organizations as provided in section 4942(j)(3)(B)(iii)					
(3) Largest amount of support from an exempt organization					
(4) Gross investment income					

Part XIV Supplementary Information (Complete this part only if the foundation had \$5,000 or more in assets at any time during the year-see instructions.)**1 Information Regarding Foundation Managers:**

a List any managers of the foundation who have contributed more than 2% of the total contributions received by the foundation before the close of any tax year (but only if they have contributed more than \$5,000). (See section 507(d)(2).)

NONE

b List any managers of the foundation who own 10% or more of the stock of a corporation (or an equally large portion of the ownership of a partnership or other entity) of which the foundation has a 10% or greater interest.

NONE

2 Information Regarding Contribution, Grant, Gift, Loan, Scholarship, etc., Programs:

Check here ☒ if the foundation only makes contributions to preselected charitable organizations and does not accept unsolicited requests for funds. If the foundation makes gifts, grants, etc., to individuals or organizations under other conditions, complete items 2a, b, c, and d.

a The name, address, and telephone number or email address of the person to whom applications should be addressed:

b The form in which applications should be submitted and information and materials they should include:

c Any submission deadlines:

d Any restrictions or limitations on awards, such as by geographical areas, charitable fields, kinds of institutions, or other factors:

Part XIV Supplementary Information (continued)**3 Grants and Contributions Paid During the Year or Approved for Future Payment**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution * *	Amount
a Paid during the year				
MASSACHUSETTS INSTITUTE OF TECHNOLOGY 77 MASSACHUSETTS AVENUE, BUILDING NE49-4000 CAMBRIDGE, MA 02139		PC	FOR THE RESTORATION OF MIT'S ICONIC LARGE RADOME AND 18 FT DISH TO ENABLE CURRENT AND FUTURE AMATEUR RADIO,	1,620,000.
ARESLAX, INC. 21301 CANDICE PLACE CHATSWORTH, CA 91311		PC	TO PINPOINT RADIOFREQUENCY INTERFERENCE SOURCES NEEDING UTILITY COMPANY RESOLUTION IN	23,600.
INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS INC. 116 GRAYSON AVENUE MERCERVILLE, NJ 08619		PC	TO MAKE OPERATING RADIO EASIER FOR INDIVIDUALS IN THE USA, TO HELP NARROW THE GAP FOR THOSE WITH	200,000.
UNIVERSITY OF ARIZONA 1127 E JAMES ROGERS WAY, ROOM 303 TUCSON, AZ 85721		PC	TO SUPPORT THE AMATEUR RADIO CLUB IN UPGRADING THEIR EQUIPMENT TO BE ABLE TO EXPERIMENT WITH	8,287.
OH-KY-IN AMATEUR RADIO SOCIETY, INC. 6901 BACKUS DR. ALEXANDRIA, KY 41001		PC	TO INSTALL CELLULAR INTERNET CONNECTIONS TO ENSURE INTERNET ACCESS AT REPEATER SITES FOR EDUCATION	11,752.
Total SEE CONTINUATION SHEET(S) ▶ 3a				9,247,203.
b Approved for future payment				
YOUNG LADIES RADIO LEAGUE 13208 NE 5TH AVE VANCOUVER, WA 98685		PC	END-OF-YEAR GIFT	1,000.
MIDDLE EAST TECHNICAL UNIVERSITY NIVERSITELER, DUMLUPNAR BLV. 1/6 D:133 ANKAYA/ANKARA, TURKEY		PC	AN OPEN-SOURCE SOFTWARE FRAMEWORK FOR TEACHING AND EXPERIMENTING DISTRIBUTED ALGORITHMS	43,200.
SAN FRANCISCO WIRELESS EMERGENCY MESH 1437 38TH AVE SAN FRANCISCO, CA 94122		PC	FOR BAY AREA MESH TO DEPLOY STATE-OF-THE-ART DIGITAL AMATEUR RADIO PROTOCOLS AND	147,144.
Total SEE CONTINUATION SHEET(S) ▶ 3b				1,765,507.

Form 990-PF (2021)

Part XVI	Information Regarding Transfers to and Transactions and Relationships With Noncharitable Exempt Organizations
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1 Did the organization directly or indirectly engage in any of the following with any other organization described in section 501(c)(3) (other than section 501(c)(3) organizations) or in section 527, relating to political organizations?		Yes	No
a Transfers from the reporting foundation to a noncharitable exempt organization of:			
(1) Cash	1a(1)		X
(2) Other assets	1a(2)		X
b Other transactions:			
(1) Sales of assets to a noncharitable exempt organization	1b(1)		X
(2) Purchases of assets from a noncharitable exempt organization	1b(2)		X
(3) Rental of facilities, equipment, or other assets	1b(3)		X
(4) Reimbursement arrangements	1b(4)		X
(5) Loans or loan guarantees	1b(5)		X
(6) Performance of services or membership or fundraising solicitations	1b(6)		X
c Sharing of facilities, equipment, mailing lists, other assets, or paid employees	1c		X
d If the answer to any of the above is "Yes," complete the following schedule. Column (b) should always show the fair market value of the goods, other assets, or services given by the reporting foundation. If the foundation received less than fair market value in any transaction or sharing arrangement, show in column (d) the value of the goods, other assets, or services received.			

[illegible]

2a Is the foundation directly or indirectly affiliated with, or related to, one or more tax-exempt organizations described in section 501(c) (other than section 501(c)(3)) or in section 527? ☐ Yes ☒ No

b If "Yes," complete the following schedule.

(a) Name of organization	(b) Type of organization	(c) Description of relationship
N/A		

Sign Here	Under penalties of perjury, I declare that I have examined this return, including accompanying schedules and statements, and to the best of my knowledge and belief, it is true, correct, and complete. Declaration of preparer (other than taxpayer) is based on all information of which preparer has any knowledge.		
	<div style="position: relative; height: 100%;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border-bottom: 1px solid black;"></div> </div>	<div style="position: relative; height: 100%;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border-bottom: 1px solid black;"></div> </div>	<div style="position: relative; height: 100%;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border-bottom: 1px solid black;"></div> </div>
	Signature of officer or trustee	Date	<div style="position: relative; height: 100%;"> <div style="position: absolute; top: 0; left: 0; width: 100%; height: 100%; border-bottom: 1px solid black;"></div> </div> <div style="text-align: center; font-weight: bold;">TREASURER</div>

May the IRS discuss this return with the preparer shown below? See instr.
☒ Yes ☐ No

Paid Preparer Use Only	Print/Type preparer's name JUSTIN K. LEROUX, CPA	Preparer's signature JUSTIN K. LEROUX,	Date 10/18/22	Check <input type="checkbox"/> if self-employed	PTIN P01722988
	Firm's name ▶ AAFCPAS, INC.				Firm's EIN ▶ 04-2571780
	Firm's address ▶ 50 WASHINGTON STREET WESTBOROUGH, MA 01581				Phone no. 508-366-9100

Part XIV Supplementary Information**3 Grants and Contributions Paid During the Year (Continuation)**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
RIO HONDO AMATEUR RADIO CLUB PO BOX 1781 WHITTIER, CA 90609		PC	PURCHASE EQUIPMENT THAT WILL HELP US GET NEWLY-LICENSED HAMS ON THE AIR AND TO REPLACE AN OLD AND BORROWED	4,454.
EMERGENCY VOLUNTEER CORPS OF NEHALEM BAY PO BOX 598 MANZANITA, OR 97130		PC	IMPROVING EMERGENCY COMMUNICATION WITHIN TILLAMOOK COUNTY, OREGON, AND WITH ADJACENT OREGON	34,101.
LAKE MONROE AMATEUR RADIO SOCIETY INC. 7747 DANU DRIVE ORLANDO, FL 32822		PC	TO PURCHASE A NEW PUBLIC RELATIONS TRAILER. THE TRAILER WILL BE USED BY THE CLUB TO GARNER PUBLIC	13,797.
THE YASME FOUNDATION 800 EL CAMINO REAL MENLO PARK, CA 94025		PC	FISCAL SPONSORSHIP OF VIRGIN ISLANDS AMATEUR REPEATER GROUPS INFRASTRUCTURE IMPROVEMENTS:	27,955.
CHIPPEWA VALLEY AMATEUR RADIO CLUB INC. 1020 OLIVE ST. CHIPPEWA FALLS, WI 54729		PC	TO PROVIDE AMATEUR RADIO ACCESS TO THE ENTIRE CHIPPEWA COUNTY, PLUS A GOOD CHUNK OF NORTHWESTERN	53,200.
UNIVERSITY OF SOUTHERN MISSISSIPPI 118 COLLEGE DRIVE #5143 HATTIESBURG, MS 39406		PC	RE-ESTABLISHING MEMBERSHIP AND ENTHUSIASM IN THE CLUB, INCLUDING FUNDING TO PURCHASE	8,098.
BLOUNT EMERGENCY AMATEUR RADIO SERVICE 3209 OLD LOWES FERRY ROAD LOUISVILLE, TN 37777		PC	COMPLETE UPGRADE OF A DONATED TRAILER IN SUPPORT OF BLOUNT COUNTY ARES OPERATION WHEN CALLED BY THE	11,750.
LEE COUNTY AMATEUR RADIO EMERGENCY SERVICE 1325 PRIVATE ROAD 3263 GIDDINGS, TX 78942		PC	EQUIPPING AND MAINTAINING AN EMERGENCY COMMUNICATION VEHICLE AND/OR TRAILER WITH	40,600.
SKI COUNTRY AMATEUR RADIO CLUB, INC PO BOX 302 CARBONDALE, CO 81623		PC	TO COMPLETELY RECONSTRUCT THE MICROWAVE SYSTEM USING 5.8 GHZ HARDWARE DUE TO FEDERAL	3,561.
OH-KY-IN AMATEUR RADIO SOCIETY, INC. 6901 BACKUS DR. ALEXANDRIA, KY 41001		PC	ACQUIRE THE NECESSARY EQUIPMENT TO ASSEMBLE A HIGH QUALITY PORTABLE SATELLITE GROUND STATION TO HOST	5,288.
Total from continuation sheets				7,383,564.

Part XIV Supplementary Information**3 Grants and Contributions Paid During the Year (Continuation)**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
VALLEY RADIO CLUB OF OREGON, INC. 2637 QUINCE ST EUGENE, OR 97404		PC	A SIGNIFICANT UPGRADE OF THE AMATEUR RADIO STATION THE CLUB OPERATES AND MAINTAINS AT THE EUGENE SCIENCE	16,525.
LAMORINDA CERT FOUNDATION 1280 MORAGA WAY MORAGA, CA 94556		PC	THE FINAL DEVELOPMENT AND FULL DEPLOYMENT OF A VHF BASED DIGITAL AMATEUR RADIO INFRASTRUCTURE,	23,220.
UNIVERSITY OF OREGON PO BOX 3237 EUGENE, OR 97403		PC	TO ESTABLISH A PHYSICAL AND FUNCTIONAL PRESENCE ON THE UNIVERSITY OF OREGON CAMPUS AND TO	25,606.
ARRL FOUNDATION INC. 225 MAIN STREET NEWINGTON, CT 06111		PC	TO ADVANCE THE ART, SCIENCE AND SOCIETAL BENEFITS OF THE AMATEUR RADIO SERVICE BY AWARDED FINANCIAL	600,000.
MISSISSIPPI VALLEY AMATEUR RADIO ASSOCIATION N3070 SMITH VALLEY ROAD LA CROSSE, WI 54601		PF	ASSISTANCE FOR INSURANCE, MAINTENANCE, FUEL, AND EQUIPMENT UPGRADES FOR A EMERGENCY	116,399.
SANTA BARBARA AMATEUR RADIO CLUB INC. 6267 MOMOUTH AVE GOLETA, CA 93117		PC	THE VOLUNTEER-BUILT AMATEUR RADIO STATION WILL OFFER VISITORS A GLIMPSE OF ISLAND LIFE THROUGH ISLAND	35,550.
CALIFORNIA HIGH SCHOOL 9870 BROADMOOR DR. SAN RAMON, CA 94583		PC	INCORPORATING CONSTRUCTIVISM AND THE MAKER MENTALITY AT CALIFORNIA HIGH SCHOOL.	9,950.
WOODRIDGE MIDDLE SCHOOL 7309 SENNAWOOD DR. CEDAR HILL, MO 63016		PC	PROJECT-BASED LEARNING ON RADIO DIRECTION AND RANGE FINDING (RDRF) OR FOXHUNTING ACTIVITIES AND	5,453.
MUSEUM OF SCIENCE & TECHNOLOGY FOUNDATION 500 SOUTH FRANKLIN STREET SYRACUSE, NY 13202		PC	TO SUPPORT AN EDUCATIONAL "CONTACT WITH THE INTERNATIONAL SPACE STATION" EVENT.	4,122.
MERCATUS CENTER INC. 3434 WASHINGTON BLVD, 4TH FLOOR ARLINGTON, VA 22201		PC	IN-HOUSE DEVELOPMENT OF 1U CUBESAT FOR STRATOSPHERIC/SUBORBIT FLIGHTS AND EDUCATIONAL	17,300.
Total from continuation sheets				

Part XIV Supplementary Information**3 Grants and Contributions Paid During the Year (Continuation)**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
THE NORWICH FREE ACADEMY 305 BROADWAY NORWICH, CT 06360		PC	CREATE A GROUND STATION FOR CONTACTING AMATEUR RADIO SATELLITES, WEATHER SATELLITES, AND THE	9,769.
UNIVERSITY OF OKLAHOMA 201 STEPHENSON PARKWAY NORMAN, OK 73019		PC	AMATEUR RADIO STATION TECHNICAL REFRESH AND REBUILD, INCLUDING EQUIPMENT AND EXTERNAL PROFESSIONAL SERVICES	22,983.
ARRL FOUNDATION INC. 225 MAIN STREET NEWINGTON, CT 06111		PC	TO ADVANCE THE ART, SCIENCE AND SOCIETAL BENEFITS OF THE AMATEUR RADIO SERVICE BY AWARDED FINANCIAL	761,250.
CASE WESTERN RESERVE UNIVERSITY 10900 EUCLID AVENUE CLEVELAND, OH 44106		PC	REPLACE THE ANTENNA TOWERS AT COLLEGIATE STATION TO ENSURE CONTINUITY OF OUR RADIOCLUBS EFFORTS IN	81,763.
SOCIAL AND ENVIRONMENTAL ENTREPRENEURS INC. 23564 CALABASAS ROAD NO 201 CALABASAS, CA 91302		PC	BUILDING MATHEMATICAL CONCEPTS RELATED TO RADIO TECHNOLOGY THROUGH GAMES, MANIPULATIVES, AND	112,200.
CASE WESTERN RESERVE UNIVERSITY 10900 EUCLID AVENUE CLEVELAND, OH 44106		PC	A SUPPORT FUND FOR UNDERGRADUATE ENGINEERING AND PHYSICS STUDENTS' SENIOR PROJECTS WHICH	2,000.
BRIDGERLAND AMATEUR RADIO CLUB INC. PO BOX 111 PROVIDENCE, UT 84332		PC	INTRODUCE YOUTH TO AMATEUR RADIO AND ENGAGE THEM THROUGH FUN HANDS-ON ACTIVITIES THEMED	17,831.
SOCIETY OF WOMEN ENGINEERS 130 E RANDOLPH ST SUITE 3500 CHICAGO, IL 60601		PC	SCHOLARSHIPS, RESEARCH, AND PROGRAMMING FUNDS TO INSPIRE AND ATTRACT GIRLS TO FUTURE	318,000.
COLORADO SCHOOL OF MINES FOUNDATION PO BOX 4005 GOLDEN, CO 80401		PC	SCHOLARSHIPS TO SUPPORT UNDERGRADUATE SCHOLARSHIPS AND PROGRAMMING FOR FOUR BLACK, INDIGENOUS,	150,000.
AMATEUR RADIO ON THE INTERNATIONAL SPACE STATION 909 METFIELD ROAD TOWSON, MD 21286		PC	IMPROVE STEAM OUTCOMES THROUGH A PROGRAM FEATURING STUDENT AND TEACHER EDUCATION VIA RADIO EXPERIMENTATION	1,292,515.
Total from continuation sheets				

Part XIV Supplementary Information**3 Grants and Contributions Paid During the Year (Continuation)**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
FRANKLIN W. OLIN COLLEGE OF ENGINEERING 1000 OLIN WAY MH333 NEEDHAM, MA 02492		PC	FUNDING FOR PERSONNEL AND EQUIPMENT FOR OLIN SATELLITE + SPECTRUM TECHNOLOGY & POLICY (OSSTP) GROUP AND THE	671,878.
SOFTWARE FREEDOM CONSERVANCY INC. 137 MONTAGUE ST BROOKLYN, NY 11201		PC	EXPAND OUTREACHY INTERNSHIP PROGRAM, SUSTAINABILITY OF PROGRAM OPERATIONS, DEVELOP STRATEGIC	150,000.
ARRL FOUNDATION INC. 225 MAIN STREET NEWINGTON, CT 06111		PC	TO ADVANCE THE ART, SCIENCE AND SOCIETAL BENEFITS OF THE AMATEUR RADIO SERVICE BY AWARDED FINANCIAL	203,000.
CASCADE AMATEUR RADIO SOCIETY 10200 SW KATHERINE ST TIGARD, OR 97223		PC	EXPAND HAMWAN AVAILABILITY TO THE MAJORITY OF THE AMATEUR RADIO OPERATORS IN OREGON.	88,391.
OPEN RESEARCH INSTITUTE INC. 3525 DEL MAR HEIGHTS ROAD #1873 SAN DIEGO, CA 92130		PC	RADIO FREQUENCY DESIGN AND DEVELOPMENT, INCLUDING TEST EQUIPMENT, PROTOTYPES, AND DEVELOPER KITS FOR	250,000.
ROCKY MOUNTAIN HAM RADIO INC. 5236 BEAR MOUNTAIN DRIVE EVERGREEN, CO 80439		PC	EXPANSION OF MICROWAVE NETWORK, EXPANSION OF REPEATER COVERAGE, AND COMMUNICATION TRAILER UPGRADES.	374,233.
TRUSTEES OF PRINCETON UNIVERSITY 701 CARNEGIE CENTER, SUITE 445 PRINCETON, NJ 08540		PC	SUPPORT ONE HALF FTE OF ONE GRADUATE STUDENT (\$44,125) FOR ONE YEAR TO WORK ON TASKS 1 AND 3, AND ONE	91,687.
SOFTWARE FREEDOM CONSERVANCY INC. 137 MONTAGUE ST BROOKLYN, NY 11201		PC	MAINTAIN MOMENTUM AROUND REPRODUCIBLE BUILDS VARIOUS PROJECTS, SUCH AS DIFFOSCOPE.	115,000.
TUCSON AMATEUR PACKET RADIO CORPORATION 1055 WILDERNESS BLUFF TIPP CITY, OH 45371		PC	INCREASE THE PROTYPE BUILD OF TANGERINESDR DATA ENGINE (DE), RF MODULE (RFM) AND CLOCK MODULE (CKM) TO 25 TO	97,000.
PURDUE UNIVERSITY 6871 E COUNTY RD 400 S SEYMOUR, IN 47274		PC	DEVELOPING NETWORK ANALYTICS TOOLS FOR UNDERSTANDING WIRELESS SYSTEMS.	64,213.
Total from continuation sheets				

Part XIV Supplementary Information**3 Grants and Contributions Paid During the Year (Continuation)**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
ALLSTARLINK 3802 ROSECRANS STREET SUITE 485 SAN DIEGO, CA 92110		PC	THIS TWO PHASE REQUEST IS TO FUND ENHANCEMENTS TO THE EXISTING ALLSTARLINK APP_RPT APPLICATION TO	12,000.
TECHNICAL UNIVERSITY OF BUDAPEST MUEGYETEM RKP.3, 1111 BUDAPEST, HUNGARY		PC	TO STUDY ELECTROMAGNETIC POLLUTION USING RADIOAMATEUR SATELLITES.	70,545.
HAITI INTERNATIONAL FRIENDSHIP AMATEUR RADIO CLUB PO BOX 73 ELM, PA 17521		PC	PROVIDING EMERGENCY COMMUNICATION FOR EARTHQUAKE VICTIMS IN HAITI BY ESTABLISHING AN HF RADIO NETWORK.	14,864.
HACDC AMATEUR RADIO CLUB INC. 1301 GERANIUM STREET NW WASHINGTON, DC 20012		PC	APPLICATION FOR GRANT TO FUND AMATEUR RADIO GROWTH AND COMMUNITY ENGAGEMENT IN THE DISTRICT OF COLUMBIA	26,319.
VIRGINIA TECH FOUNDATION INC 902 PRICES FORK ROAD NO. 4000 BLACKSBURG, VA 24061		PC	PURCHASE AND EQUIP A HAM RADIO TRAILER FOR THE CLUB'S YOUTH TO USE AT REGULAR MEETINGS, AND FOR	33,900.
SOUTHWEST LOUISIANA AMATEUR REPEATER CLUB INC PO BOX 7244 LAKE CHARLES, LA 70606		PC	UPGRADE OF 5 REPEATERS IN SOUTHWEST LOUISIANA DAMAGED BY HURRICANES LAURA AND DELTA.	95,000.
PAPA SYSTEM INC. 2918 TWIN OAKS VALLEY RD SAN MARCOS, CA 92069		PC	TO SUSTAIN OFF-GRID OPERATIONS DURING COMMERCIAL POWER FAILURES. PAPA INTENDS TO CONSTRUCT A	157,425.
UTAH VHF SOCIETY 2166 EAST 2100 NORTH LAYTON, UT 84040		PC	UPGRADE FOUR OF THE KEY NODES OF THE INTERMOUNTAIN INTERTIE SYSTEM, FARNSWORTH PEAK, SNOWBIRD,	160,555.
REGENTS UNIVERSITY OF CALIFORNIA LOS ANGELES 7408 BOELTER HALL BOX 951600 LOS ANGELES, CA 90095		PC	CONTROLLING COMMODITY NB-IOT DEVICES VIA OFF-THE-SHELF AMATEUR RADIOS: A SOFTWARE-CENTRIC	69,053.
BELLINGHAM MAKERSPACE 1000 F ST BELLINGHAM, WA 98225	MEMBER OF GRANTS ADVISORY COMMITTEE IS EMPLOYEE	PC	TO ENABLE THEIR NEW GROUP, THE BELLINGHAM MAKERSPACE AMATEUR RADIO GROUP (BMARG), TO BUILD OUT AND	62,785.
Total from continuation sheets				

Part XIV Supplementary Information**3 Grants and Contributions Paid During the Year (Continuation)**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
OMIK SCHOLARSHIP FUND 64 VINE GROVE LN CORDOVA, TN 38018		PC	OFFER MORE FINANCIAL ASSISTANCE TO QUALIFIED STUDENTS INVOLVED IN POSTSECONDARY	50,000.
RHIZOMATICA COMMUNICATIONS 241 S 6TH STREET PHILADELPHIA, PA 19106		PC	TO CONTINUE DEVELOPMENT OF THE HIGH-FREQUENCY EMERGENCY AND RURAL MULTIMEDIA EXCHANGE	335,940.
INTREPID-DX GROUP 3052 WETMORE DR. SAN JOSE, CA 95148		PC	ANNUAL YOUTH "DREAM RIG" ESSAY CONTEST TO STIMULATE THOUGHT, INCREASE COMMUNICATIONS WITH	1,500.
ASSOCIATED STUDENTS INC 1 GRAND AVE UNIV UNION BOX 388 SAN LUIS OBISPO, CA 93407		PC	UPGRADING BOTH THE DC BATTERY BACKUP SYSTEM AND THE HF RADIOS TO STATE-OF-THE-ART SOFTWARE-DEFINED RADIO	22,000.
FOCUSING OUR RESOURCES FOR COMMUNITY ENLIGHTENMENT (FORCE) PO BOX 317 SYRACUSE, NY 13205		PC	PURCHASE EQUIPMENT, BOOKS, RECEIVER KITS, SOLDERING KITS, HAM RADIO PREP SUBSCRIPTIONS, AND	8,000.
DARC E.V. ULMENSTR. 11 57290 NORDTHEIN-WESTFALEN, GERMANY		PC	BOOST AND SECURE EUROPEAN HAMNET EXPANSION BY PROVIDING SPONSORED HARDWARE FOR RADIO LINKS MAKING USE	197,317.
DARC E.V. ULMENSTR. 11 57290 NORDTHEIN-WESTFALEN, GERMANY		PC	TO ENHANCE THE OPEN SOURCE SOFTWARE "OPENWEBRX" BY FUNDING A DEDICATED SOFTWARE ENGINEER FOR THE	114,719.
INTERNET ARCHIVE 300 FUNSTON AVE SAN FRANCISCO, CA 94118		PC	END-OF-YEAR GIFT	2,500.
THE TOR PROJECT 217 1ST AVE SOUTH NO 4903 SEATTLE, WA 98194		PC	END-OF-YEAR GIFT	1,000.
ELECTRONIC FRONTIER FOUNDATION (EFF) 815 EDDY ST SAN FRANCISCO, CA 94109		PC	END-OF-YEAR GIFT	2,500.
Total from continuation sheets				

Part XIV Supplementary Information**3 Grants and Contributions Paid During the Year (Continuation)**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
LIBREOFFICE (THE DOCUMENT FOUNDATION) VIA SOFTWARE IN THE PUBLIC INTEREST 1732 1ST AVE NEW YORK, NY 10128		PC	END-OF-YEAR GIFT	1,000.
THUNDERBIRD/MOZILLA FOUNDATION 331 E EVELYN AVE MOUNTAIN VIEW, CA 94014		PC	END-OF-YEAR GIFT	1,000.
HANDIHAMS VIA THE COURAGE KENNY FOUNDATION PO BOX 43 MINNEAPOLIS, MN 10890		PC	END-OF-YEAR GIFT	1,000.
ELECTRONIC PRIVACY INFORMATION CENTER (EPIC) 1519 NEW HAMPSHIRE AVE NW WASHINGTON, DC 20036		PC	END-OF-YEAR GIFT	1,000.
THE DEBIAN PROJECT VIA SOFTWARE IN THE PUBLIC INTEREST 1732 1ST AVE NEW YORK, NY 10128		PC	END-OF-YEAR GIFT	1,000.
THE APACHE SOFTWARE FOUNDATION 1000 N WEST NO 1200 WILMINGTON, DE 19801		PC	END-OF-YEAR GIFT	1,000.
GIT VIA SOFTWARE FREEDOM CONSERVANCY 137 MONTAGUE ST BROOKLYN, NY 11201		PC	END-OF-YEAR GIFT	1,000.
OPEN STREET MAP FOUNDATION 888 WHITE PLAINS ROAD TRUMBULL, CT 06611		PC	END-OF-YEAR GIFT	1,000.
WIKIMEDIA FOUNDATION 1 MONTGOMERY ST SUITE 1600 SAN FRANCISCO, CA 94104		PC	END-OF-YEAR GIFT	2,500.
PYTHON SOFTWARE FOUNDATION 9450 SW GEMINI DR ECM 90772 BEAVERTON, OR 97008		PC	END-OF-YEAR GIFT	1,000.
Total from continuation sheets				

Part XIV Supplementary Information**3 Grants and Contributions Approved for Future Payment (Continuation)**

Recipient Name and address (home or business)	If recipient is an individual, show any relationship to any foundation manager or substantial contributor	Foundation status of recipient	Purpose of grant or contribution	Amount
HIGHLINE AMATEUR RADIO CLUB PO BOX 852 SEAHURST, WA 98062		PC	DIGITAL RADIO INFRASTRUCTURE	183,229.
DARC E.V. ULMENSTR. 11 57290 NORDTHEIN-WESTFALEN, GERMANY		PC	LINUX AX.25 DEVELOPMENT	205,810.
DARC E.V. ULMENSTR. 11 57290 NORDTHEIN-WESTFALEN, GERMANY		PC	FREE SOFTWARE IMPLEMENTATIONS OF MORE GSM AND GPRS RADIO PROTOCOLS AND MODULATIONS, WHICH	286,419.
INTERNET ARCHIVE 300 FUNSTON AVE SAN FRANCISCO, CA 94118		PC	BUILDING THE DIGITAL LIBRARY OF AMATEUR RADIO & COMMUNICATIONS	889,405.
AMATEUR RADIO EXPERIMENTERS GROUP, INC. PO BOX 921 MODBURY, AUSTRALIA		NC	ENABLE OPERATING EXPENSES, FOCUS ON DEVELOPMENT OF THE PLATFORM WITH A FOCUS ON DATA QUALITY,	8,300.
OMIK SCHOLARSHIP FUND 64 VINE GROVE LN CORDOVA, TN 38018		PC	END-OF-YEAR GIFT	1,000.
Total from continuation sheets				1,574,163.

Part XIV Supplementary Information

3a Grants and Contributions Paid During the Year Continuation of Purpose of Grant or Contribution

NAME OF RECIPIENT - MASSACHUSETTS INSTITUTE OF TECHNOLOGY
FOR THE RESTORATION OF MIT'S ICONIC LARGE RADOME AND 18 FT DISH TO
ENABLE CURRENT AND FUTURE AMATEUR RADIO, EDUCATION, AND RESEARCH
PROJECTS.

NAME OF RECIPIENT - ARESLAX, INC.
TO PINPOINT RADIOFREQUENCY INTERFERENCE SOURCES NEEDING UTILITY COMPANY
RESOLUTION IN LOS ANGELES COUNTY.

NAME OF RECIPIENT - INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
INC.
TO MAKE OPERATING RADIO EASIER FOR INDIVIDUALS IN THE USA, TO HELP
NARROW THE GAP FOR THOSE WITH LESS PARTICIPATION AND ACCESS TO THE
AMATEUR RADIO COMMUNITY. THE PROJECT AIMS TO REDUCE BOTH GENDER AND AGE
IMBALANCES IN HAM RADIO, THROUGH EDUCATION AND HANDS-ON EXPERIENCES.

NAME OF RECIPIENT - UNIVERSITY OF ARIZONA
TO SUPPORT THE AMATEUR RADIO CLUB IN UPGRADING THEIR EQUIPMENT TO BE
ABLE TO EXPERIMENT WITH DIGITAL MODES.

NAME OF RECIPIENT - OH-KY-IN AMATEUR RADIO SOCIETY, INC.
TO INSTALL CELLULAR INTERNET CONNECTIONS TO ENSURE INTERNET ACCESS AT
REPEATER SITES FOR EDUCATION AND EXPERIMENTATION BY AMATEUR RADIO
OPERATORS.

NAME OF RECIPIENT - RIO HONDO AMATEUR RADIO CLUB
PURCHASE EQUIPMENT THAT WILL HELP US GET NEWLY-LICENSED HAMS ON THE AIR
AND TO REPLACE AN OLD AND BORROWED 220 REPEATER.

Part XIV Supplementary Information**3a** Grants and Contributions Paid During the Year Continuation of Purpose of Grant or Contribution

NAME OF RECIPIENT - EMERGENCY VOLUNTEER CORPS OF NEHALEM BAY
IMPROVING EMERGENCY COMMUNICATION WITHIN TILLAMOOK COUNTY, OREGON, AND
WITH ADJACENT OREGON COASTAL COUNTIES: ADDING A REPEATER ON NEAHKAHNIE
MOUNTAIN AND DISTRIBUTING DIGITAL COMMUNICATION EQUIPMENT TO LOCAL
OPERATIONS CENTERS, EOC, AND OTHER COUNTY LOCATIONS.

NAME OF RECIPIENT - LAKE MONROE AMATEUR RADIO SOCIETY INC.
TO PURCHASE A NEW PUBLIC RELATIONS TRAILER. THE TRAILER WILL BE USED BY
THE CLUB TO GARNER PUBLIC INTEREST IN AMATEUR RADIO BY PROVIDING A
VISIBLE OPERATING PRESENCE AT COMMUNITY EVENTS IN AND AROUND WINTER
SPRINGS, FLORIDA.

NAME OF RECIPIENT - THE YASME FOUNDATION
FISCAL SPONSORSHIP OF VIRGIN ISLANDS AMATEUR REPEATER GROUPS
INFRASTRUCTURE IMPROVEMENTS: REPEATERS, ANTENNAS, & NEW HAM RESOURCES

NAME OF RECIPIENT - CHIPPEWA VALLEY AMATEUR RADIO CLUB INC.
TO PROVIDE AMATEUR RADIO ACCESS TO THE ENTIRE CHIPPEWA COUNTY, PLUS A
GOOD CHUNK OF NORTHWESTERN WISCONSIN, INCLUDING THE LANDS OF THE LAC
COURTA OREILLES NATION.

NAME OF RECIPIENT - UNIVERSITY OF SOUTHERN MISSISSIPPI
RE-ESTABLISHING MEMBERSHIP AND ENTHUSIASM IN THE CLUB, INCLUDING
FUNDING TO PURCHASE AND INSTALL A VHF OR UHF REPEATER ON A 10 STORY
SCIENCE BUILDING TO BE LINKED THROUGH ALLSTAR AND ECHOLINK, SO STUDENTS
WILL HAVE REGULAR ACCESS TO OTHER STUDENT AMATEURS ON CAMPUS AND AT
OTHER UNIVERSITIES.

Part XIV Supplementary Information**3a** Grants and Contributions Paid During the Year Continuation of Purpose of Grant or Contribution

NAME OF RECIPIENT - BLOUNT EMERGENCY AMATEUR RADIO SERVICE

COMPLETE UPGRADE OF A DONATED TRAILER IN SUPPORT OF BLOUNT COUNTY ARES
OPERATION WHEN CALLED BY THE LOCAL AUTHORITIES.

NAME OF RECIPIENT - LEE COUNTY AMATEUR RADIO EMERGENCY SERVICE

EQUIPPING AND MAINTAINING AN EMERGENCY COMMUNICATION VEHICLE AND/OR
TRAILER WITH RADIOS, REPEATERS, ANTENNAS AND OTHER EQUIPMENT FOR MOBILE
BACKUP RADIO COMMUNICATIONS

NAME OF RECIPIENT - SKI COUNTRY AMATEUR RADIO CLUB, INC

TO COMPLETELY RECONSTRUCT THE MICROWAVE SYSTEM USING 5.8 GHZ HARDWARE
DUE TO FEDERAL REQUIREMENTS.

NAME OF RECIPIENT - OH-KY-IN AMATEUR RADIO SOCIETY, INC.

ACQUIRE THE NECESSARY EQUIPMENT TO ASSEMBLE A HIGH QUALITY PORTABLE
SATELLITE GROUND STATION TO HOST ARISS SCHOOL CONTACTS, DEMONSTRATE
SATELLITE OPERATIONS DURING ARRL FIELD DAY, WINTER FIELD DAY AND STEM
OUTREACH PROGRAMS WITH LOCAL AND REGIONAL SCHOOLS.

NAME OF RECIPIENT - VALLEY RADIO CLUB OF OREGON, INC.

A SIGNIFICANT UPGRADE OF THE AMATEUR RADIO STATION THE CLUB OPERATES
AND MAINTAINS AT THE EUGENE SCIENCE CENTER.

NAME OF RECIPIENT - LAMORINDA CERT FOUNDATION

THE FINAL DEVELOPMENT AND FULL DEPLOYMENT OF A VHF BASED DIGITAL
AMATEUR RADIO INFRASTRUCTURE, INCLUDING NECESSARY BACK-UP EMERGENCY
POWER, FOR THE CITY OF WALNUT CREEKS CERT TEAMS.

Part XIV Supplementary Information

3a Grants and Contributions Paid During the Year Continuation of Purpose of Grant or Contribution

NAME OF RECIPIENT - UNIVERSITY OF OREGON

TO ESTABLISH A PHYSICAL AND FUNCTIONAL PRESENCE ON THE UNIVERSITY OF OREGON CAMPUS AND TO PROMOTE HAM RADIO TO THE COMMUNITY, PROVIDING FOR EMERGENCY COMMUNICATIONS, AND TO CREATE A FERTILE TRAINING GROUND FOR COLLEGE-AGED STUDENTS TO BECOME LICENSED AND ACTIVE ON THE AIR, AND WORK ON AND IMPLEMENT NEW TECHNOLOGIES.

NAME OF RECIPIENT - ARRL FOUNDATION INC.

TO ADVANCE THE ART, SCIENCE AND SOCIETAL BENEFITS OF THE AMATEUR RADIO SERVICE BY AWARDING FINANCIAL GRANTS AND SCHOLARSHIPS TO INDIVIDUALS AND ORGANIZATIONS IN SUPPORT OF THEIR CHARITABLE, EDUCATIONAL AND SCIENTIFIC EFFORTS.

NAME OF RECIPIENT - MISSISSIPPI VALLEY AMATEUR RADIO ASSOCIATION

ASSISTANCE FOR INSURANCE, MAINTENANCE, FUEL, AND EQUIPMENT UPGRADES FOR A EMERGENCY COMMUNICATIONS BUS.

NAME OF RECIPIENT - SANTA BARBARA AMATEUR RADIO CLUB INC.

THE VOLUNTEER-BUILT AMATEUR RADIO STATION WILL OFFER VISITORS A GLIMPSE OF ISLAND LIFE THROUGH ISLAND WEBCAMS, VESSEL, AIRCRAFT AND WILDLIFE TRACKING AND OTHER REMOTE SENSING TECHNOLOGIES ACCESSIBLE OVER SBARCS MICROWAVE DATA LINKS. THE STATION WILL DOUBLE AS AN INTERACTIVE EXHIBIT TO CAST AMATEUR RADIO AND WIRELESS TECHNOLOGIES IN A MODERN AND EXCITING LIGHT FOR VISITORS OF ALL AGES.

NAME OF RECIPIENT - WOODRIDGE MIDDLE SCHOOL

PROJECT-BASED LEARNING ON RADIO DIRECTION AND RANGE FINDING (RDRF) OR

Part XIV Supplementary Information

3a Grants and Contributions Paid During the Year Continuation of Purpose of Grant or Contribution

FOXHUNTING ACTIVITIES AND DOUBLING THE NUMBER OF SOLDERING KITS (RADIOS AND CLOCKS) STUDENTS BUILD DURING A CURRICULUM UNIT ON CIRCUITS AND TECHNOLOGY.

NAME OF RECIPIENT - MERCATUS CENTER INC.

IN-HOUSE DEVELOPMENT OF 1U CUBESAT FOR STRATOSPHERIC/SUBORBITAL FLIGHTS AND EDUCATIONAL DEMONSTRATIONS BY THE PARADOX SONIC SPACE RESEARCH AGENCY.

NAME OF RECIPIENT - THE NORWICH FREE ACADEMY

CREATE A GROUND STATION FOR CONTACTING AMATEUR RADIO SATELLITES, WEATHER SATELLITES, AND THE INTERNATIONAL SPACE STATION TO FURTHER PROMOTE AMATEUR RADIO THROUGH SPACE COMMUNICATIONS AT THE NORWICH FREE ACADEMY.

NAME OF RECIPIENT - UNIVERSITY OF OKLAHOMA

AMATEUR RADIO STATION TECHNICAL REFRESH AND REBUILD, INCLUDING EQUIPMENT AND EXTERNAL PROFESSIONAL SERVICES FOR EQUIPMENT INSTALLATION ON THE SPIRE OF THE NATIONAL WEATHER CENTER.

NAME OF RECIPIENT - ARRL FOUNDATION INC.

TO ADVANCE THE ART, SCIENCE AND SOCIETAL BENEFITS OF THE AMATEUR RADIO SERVICE BY AWARDING FINANCIAL GRANTS AND SCHOLARSHIPS TO INDIVIDUALS AND ORGANIZATIONS IN SUPPORT OF THEIR CHARITABLE, EDUCATIONAL AND SCIENTIFIC EFFORTS.

NAME OF RECIPIENT - CASE WESTERN RESERVE UNIVERSITY

REPLACE THE ANTENNA TOWERS AT COLLEGIATE STATION TO ENSURE CONTINUITY

Part XIV Supplementary Information

3a Grants and Contributions Paid During the Year Continuation of Purpose of Grant or Contribution

OF OUR RADIOCLUBS EFFORTS IN EDUCATION, TECHNOLOGY AND OPEN SCIENCE.

NAME OF RECIPIENT - SOCIAL AND ENVIRONMENTAL ENTREPRENEURS INC.

BUILDING MATHEMATICAL CONCEPTS RELATED TO RADIO TECHNOLOGY THROUGH
GAMES, MANIPULATIVES, AND DISCOVERY-BASED ACTIVITIES.

NAME OF RECIPIENT - CASE WESTERN RESERVE UNIVERSITY

A SUPPORT FUND FOR UNDERGRADUATE ENGINEERING AND PHYSICS STUDENTS'
SENIOR PROJECTS WHICH DIRECTLY INVOLVE AMATEUR RADIO AND CLUB
ACTIVITIES

NAME OF RECIPIENT - BRIDGERLAND AMATEUR RADIO CLUB INC.

INTRODUCE YOUTH TO AMATEUR RADIO AND ENGAGE THEM THROUGH FUN HANDS-ON
ACTIVITIES THEMED AROUND SPACE SCIENCE AND TECHNOLOGY.

NAME OF RECIPIENT - SOCIETY OF WOMEN ENGINEERS

SCHOLARSHIPS, RESEARCH, AND PROGRAMMING FUNDS TO INSPIRE AND ATTRACT
GIRLS TO FUTURE CAREERS IN STEM FIELDS AND RETAIN THEM IN THE
PROFESSION.

NAME OF RECIPIENT - COLORADO SCHOOL OF MINES FOUNDATION

SCHOLARSHIPS TO SUPPORT UNDERGRADUATE SCHOLARSHIPS AND PROGRAMMING FOR
FOUR BLACK, INDIGENOUS, PEOPLE OF COLOR (BIPOC) STUDENTS WHO HAVE
INTEREST IN OR ARE ALREADY PURSUING ELECTRICAL ENGINEERING DEGREES AT
MINES.

NAME OF RECIPIENT - AMATEUR RADIO ON THE INTERNATIONAL SPACE STATION

IMPROVE STEAM OUTCOMES THROUGH A PROGRAM FEATURING STUDENT AND TEACHER

Part XIV Supplementary Information

3a Grants and Contributions Paid During the Year Continuation of Purpose of Grant or Contribution

EDUCATION VIA RADIO EXPERIMENTATION AND OPERATIONS.

NAME OF RECIPIENT - FRANKLIN W. OLIN COLLEGE OF ENGINEERING

FUNDING FOR PERSONNEL AND EQUIPMENT FOR OLIN SATELLITE + SPECTRUM

TECHNOLOGY & POLICY (OSSTP) GROUP AND THE OLIN COLLEGIATE AMATEUR RADIO CLUB (OCARC).

NAME OF RECIPIENT - SOFTWARE FREEDOM CONSERVANCY INC.

EXPAND OUTREACHY INTERNSHIP PROGRAM, SUSTAINABILITY OF PROGRAM OPERATIONS, DEVELOP STRATEGIC PARTNERSHIPS

NAME OF RECIPIENT - ARRL FOUNDATION INC.

TO ADVANCE THE ART, SCIENCE AND SOCIETAL BENEFITS OF THE AMATEUR RADIO SERVICE BY AWARDING FINANCIAL GRANTS AND SCHOLARSHIPS TO INDIVIDUALS AND ORGANIZATIONS IN SUPPORT OF THEIR CHARITABLE, EDUCATIONAL AND SCIENTIFIC EFFORTS.

NAME OF RECIPIENT - OPEN RESEARCH INSTITUTE INC.

RADIO FREQUENCY DESIGN AND DEVELOPMENT, INCLUDING TEST EQUIPMENT, PROTOTYPES, AND DEVELOPER KITS FOR THE M17 PROJECT.

NAME OF RECIPIENT - TRUSTEES OF PRINCETON UNIVERSITY

SUPPORT ONE HALF FTE OF ONE GRADUATE STUDENT (\$44,125) FOR ONE YEAR TO WORK ON TASKS 1 AND 3, AND ONE POSTDOCTORAL RESEARCH ASSOCIATE FOR ONE YEAR (\$32,770) TO WORK ON TASKS 1 AND 2, AT ONE-THIRD FTE APIECE AND THE PURCHASE OF FOUR USRP E310 SOFTWARE-DEFINED RADIOS.

NAME OF RECIPIENT - TUCSON AMATEUR PACKET RADIO CORPORATION

Part XIV Supplementary Information

3a Grants and Contributions Paid During the Year Continuation of Purpose of Grant or Contribution

INCREASE THE PROTYPE BUILD OF TANGERINESDR DATA ENGINE (DE), RF MODULE (RFM) AND CLOCK MODULE (CKM) TO 25 TO 30 UNITS EACH.

NAME OF RECIPIENT - ALLSTARLINK

THIS TWO PHASE REQUEST IS TO FUND ENHANCEMENTS TO THE EXISTING ALLSTARLINK APP_RPT APPLICATION TO WORK WITH CURRENT OPERATING SYSTEMS AND ADD SUPPORT FOR ADDITIONAL PLATFORMS.

NAME OF RECIPIENT - VIRGINIA TECH FOUNDATION INC

PURCHASE AND EQUIP A HAM RADIO TRAILER FOR THE CLUB'S YOUTH TO USE AT REGULAR MEETINGS, AND FOR PUBLIC DEMONSTRATIONS AND SPECIAL EVENTS.

NAME OF RECIPIENT - PAPA SYSTEM INC.

TO SUSTAIN OFF-GRID OPERATIONS DURING COMMERCIAL POWER FAILURES. PAPA INTENDS TO CONSTRUCT A PURPOSE-BUILT MICROWAVE BACKBONE NETWORK WITH AN INDEPENDENT SOURCE OF INTERNET CONNECTIVITY TO PROVIDE DIGITAL IP CONNECTIVITY BETWEEN REPEATER SITES.

NAME OF RECIPIENT - UTAH VHF SOCIETY

UPGRADE FOUR OF THE KEY NODES OF THE INTERMOUNTAIN INTERTIE SYSTEM, FARNSWORTH PEAK, SNOWBIRD, BLOWHARD, AND FRISCO PEAK (THIS INCLUDES ONE SPARE RADIO FOR BACKUP & REPAIR).

NAME OF RECIPIENT - REGENTS UNIVERSITY OF CALIFORNIA LOS ANGELES

CONTROLLING COMMODITY NB-IOT DEVICES VIA OFF-THE-SHELF AMATEUR RADIOS: A SOFTWARE-CENTRIC SOLUTION

NAME OF RECIPIENT - BELLINGHAM MAKERSPACE

Part XIV Supplementary Information**3a** Grants and Contributions Paid During the Year Continuation of Purpose of Grant or Contribution

TO ENABLE THEIR NEW GROUP, THE BELLINGHAM MAKERSPACE AMATEUR RADIO GROUP (BMARG), TO BUILD OUT AND IMPROVE THE PUBLIC PRESENCE OF AMATEUR RADIO WITHIN THE MAKERSPACE, EQUIP BMARG TO PROMOTE AMATEUR RADIO AND SUPPORT NEW AMATEUR RADIO OPERATORS, AND UPGRADE ITS CAPABILITIES FOR HOSTING MORE PUBLIC EVENTS AND SERIAL CLASSES.

NAME OF RECIPIENT - OMIK SCHOLARSHIP FUND

OFFER MORE FINANCIAL ASSISTANCE TO QUALIFIED STUDENTS INVOLVED IN POSTSECONDARY EDUCATION, AND TO ASSIST WITH PURCHASING RADIO EQUIPMENT TO BE USED IN AMATEUR RADIO CLASSES.

NAME OF RECIPIENT - RHIZOMATICA COMMUNICATIONS

TO CONTINUE DEVELOPMENT OF THE HIGH-FREQUENCY EMERGENCY AND RURAL MULTIMEDIA EXCHANGE SYSTEM (HERMES), ENABLING THE SYSTEM TO PROVIDE A MODERN DIGITAL TELECOMMUNICATION SYSTEM FOR HF, FOR BOTH CIVIL AND AMATEUR RADIO USE.

NAME OF RECIPIENT - INTREPID-DX GROUP

ANNUAL YOUTH "DREAM RIG" ESSAY CONTEST TO STIMULATE THOUGHT, INCREASE COMMUNICATIONS WITH OUR YOUTH AND TO PROVIDE A DESERVING YOUTH WITH A "DREAM RIG" TO STIMULATE THEIR AMATEUR RADIO ACTIVITY.

NAME OF RECIPIENT - ASSOCIATED STUDENTS INC

UPGRADING BOTH THE DC BATTERY BACKUP SYSTEM AND THE HF RADIOS TO STATE-OF-THE-ART SOFTWARE-DEFINED RADIO AND BATTERY TECHNOLOGIES THAT ARE DEVELOPING AND GROWING IN THE CURRENT AMATEUR RADIO TECHNOLOGY MARKET TO ALLOW THE CLUB AREA TO CONTINUE BEING A SPACE FOR STUDENTS TO COME AND EXPERIMENT, APPLY THEIR KNOWLEDGE IN A HANDS-ON PHILOSOPHY,

Part XIV Supplementary Information

3a Grants and Contributions Paid During the Year Continuation of Purpose of Grant or Contribution

AND HELP THEM GROW AS ENGINEERS FOR THEIR FUTURE CAREERS.

NAME OF RECIPIENT - FOCUSING OUR RESOURCES FOR COMMUNITY ENLIGHTENMENT
(FORCE)

PURCHASE EQUIPMENT, BOOKS, RECEIVER KITS, SOLDERING KITS, HAM RADIO
PREP SUBSCRIPTIONS, AND LICENSING FEES AND OTHER ITEM

NAME OF RECIPIENT - DARC E.V.

BOOST AND SECURE EUROPEAN HAMNET EXPANSION BY PROVIDING SPONSORED
HARDWARE FOR RADIO LINKS MAKING USE OF THE AMPRNET IP SPACE IN EUROPE.
UPGRADE HAMNET EUROPE'S BACK-END INFRASTRUCTURE AND EVALUATE RF
HARDWARE TO ACTIVATE NEW BANDS (70-CM, 23-CM, 3-CM).

NAME OF RECIPIENT - DARC E.V.

TO ENHANCE THE OPEN SOURCE SOFTWARE "OPENWEBRX" BY FUNDING A DEDICATED
SOFTWARE ENGINEER FOR THE PERIOD OF ONE YEAR.

Part XIV Supplementary Information

3b Grants and Contributions Approved for Future Payment Continuation of Purpose of Grant or Contribution

NAME OF RECIPIENT - MIDDLE EAST TECHNICAL UNIVERSITY

AN OPEN-SOURCE SOFTWARE FRAMEWORK FOR TEACHING AND EXPERIMENTING

DISTRIBUTED ALGORITHMS ON WIRELESS

NAME OF RECIPIENT - SAN FRANCISCO WIRELESS EMERGENCY MESH

FOR BAY AREA MESH TO DEPLOY STATE-OF-THE-ART DIGITAL AMATEUR RADIO

PROTOCOLS AND EQUIPMENT TO A VERY UNDER-SERVED THREE-COUNTY AREA IN THE

HIGH SIERRA, CROSS-CONNECTING IT INTO EXISTING INTERNET-BASED SERVICES.

NAME OF RECIPIENT - DARC E.V.

FREE SOFTWARE IMPLEMENTATIONS OF MORE GSM AND GPRS RADIO PROTOCOLS AND

MODULATIONS, WHICH WOULD ALLOW HAMS TO USE THEM TO PROVIDE NARROWBAND

VOICE AND DATA SERVICES ON AMATEUR FREQUENCIES

NAME OF RECIPIENT - AMATEUR RADIO EXPERIMENTERS GROUP, INC.

ENABLE OPERATING EXPENSES, FOCUS ON DEVELOPMENT OF THE PLATFORM WITH A

FOCUS ON DATA QUALITY, INCREASED DATA RATES, AND AMATEUR RADIO SPECIFIC

FEATURES

Underpayment of Estimated Tax by Corporations

▶ Attach to the corporation's tax return.

FORM 990-PF

OMB No. 1545-0123

2021

▶ Go to www.irs.gov/Form2220 for instructions and the latest information.

Name AMATEUR RADIO DIGITAL COMMUNICATIONS	Employer identification number 45-3751971
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Note: Generally, the corporation is not required to file Form 2220 (see Part II below for exceptions) because the IRS will figure any penalty owed and bill the corporation. However, the corporation may still use Form 2220 to figure the penalty. If so, enter the amount from page 2, line 38, on the estimated tax penalty line of the corporation's income tax return, but **do not** attach Form 2220.

Part I Required Annual Payment

1 Total tax (see instructions)	1	29,122.
2a Personal holding company tax (Schedule PH (Form 1120), line 26) included on line 1	2a	
2b Look-back interest included on line 1 under section 460(b)(2) for completed long-term contracts or section 167(g) for depreciation under the income forecast method	2b	
2c Credit for federal tax paid on fuels (see instructions)	2c	
d Total. Add lines 2a through 2c	2d	
3 Subtract line 2d from line 1. If the result is less than \$500, do not complete or file this form. The corporation does not owe the penalty	3	29,122.
4 Enter the tax shown on the corporation's 2020 income tax return. See instructions. Caution: If the tax is zero or the tax year was for less than 12 months, skip this line and enter the amount from line 3 on line 5	4	33,730.
5 Required annual payment. Enter the smaller of line 3 or line 4. If the corporation is required to skip line 4, enter the amount from line 3	5	29,122.

Part II Reasons for Filing - Check the boxes below that apply. If any boxes are checked, the corporation **must** file Form 2220 even if it does not owe a penalty. See instructions.

- 6 ☐ The corporation is using the adjusted seasonal installment method.
- 7 ☐ The corporation is using the annualized income installment method.
- 8 ☐ The corporation is a "large corporation" figuring its first required installment based on the prior year's tax.

Part III Figuring the Underpayment

	(a)	(b)	(c)	(d)	
9 Installment due dates. Enter in columns (a) through (d) the 15th day of the 4th (Form 990-PF filers: Use 5th month), 6th, 9th, and 12th months of the corporation's tax year	9	05/15/21	06/15/21	09/15/21	12/15/21
10 Required installments. If the box on line 6 and/or line 7 above is checked, enter the amounts from Sch A, line 38. If the box on line 8 (but not 6 or 7) is checked, see instructions for the amounts to enter. If none of these boxes are checked, enter 25% (0.25) of line 5 above in each column	10	7,281.	7,280.	7,281.	7,280.
11 Estimated tax paid or credited for each period. For column (a) only, enter the amount from line 11 on line 15. See instructions	11				25,320.
Complete lines 12 through 18 of one column before going to the next column.					
12 Enter amount, if any, from line 18 of the preceding column	12				
13 Add lines 11 and 12	13				25,320.
14 Add amounts on lines 16 and 17 of the preceding column	14		7,281.	14,561.	21,842.
15 Subtract line 14 from line 13. If zero or less, enter -0-	15	0.	0.	0.	3,478.
16 If the amount on line 15 is zero, subtract line 13 from line 14. Otherwise, enter -0-	16		7,281.	14,561.	
17 Underpayment. If line 15 is less than or equal to line 10, subtract line 15 from line 10. Then go to line 12 of the next column. Otherwise, go to line 18	17	7,281.	7,280.	7,281.	3,802.
18 Overpayment. If line 10 is less than line 15, subtract line 10 from line 15. Then go to line 12 of the next column	18				

Go to Part IV on page 2 to figure the penalty. Do not go to Part IV if there are no entries on line 17 - no penalty is owed.

Part IV Figuring the Penalty

	(a)	(b)	(c)	(d)
19 Enter the date of payment or the 15th day of the 4th month after the close of the tax year, whichever is earlier. (C corporations with tax years ending June 30 and S corporations: Use 3rd month instead of 4th month. Form 990-PF and Form 990-T filers: Use 5th month instead of 4th month.) See instructions	19			
20 Number of days from due date of installment on line 9 to the date shown on line 19	20			
21 Number of days on line 20 after 4/15/2021 and before 7/1/2021	21			
22 Underpayment on line 17 x $\frac{\text{Number of days on line 21} \times 3\% (0.03)}{365}$...	22	\$	\$	\$
23 Number of days on line 20 after 6/30/2021 and before 10/1/2021	23			
24 Underpayment on line 17 x $\frac{\text{Number of days on line 23} \times 3\% (0.03)}{365}$...	24	\$	\$	\$
25 Number of days on line 20 after 9/30/2021 and before 1/1/2022	25			
26 Underpayment on line 17 x $\frac{\text{Number of days on line 25} \times 3\% (0.03)}{365}$...	26	\$	\$	\$
27 Number of days on line 20 after 12/31/2021 and before 4/1/2022	27	SEE ATTACHED WORKSHEET		
28 Underpayment on line 17 x $\frac{\text{Number of days on line 27} \times 3\% (0.03)}{365}$...	28	\$	\$	\$
29 Number of days on line 20 after 3/31/2022 and before 7/1/2022	29			
30 Underpayment on line 17 x $\frac{\text{Number of days on line 29} \times \%}{365}$	30	\$	\$	\$
31 Number of days on line 20 after 6/30/2022 and before 10/1/2022	31			
32 Underpayment on line 17 x $\frac{\text{Number of days on line 31} \times \%}{365}$	32	\$	\$	\$
33 Number of days on line 20 after 9/30/2022 and before 1/1/2023	33			
34 Underpayment on line 17 x $\frac{\text{Number of days on line 33} \times \%}{365}$	34	\$	\$	\$
35 Number of days on line 20 after 12/31/2022 and before 3/16/2023	35			
36 Underpayment on line 17 x $\frac{\text{Number of days on line 35} \times \%}{365}$	36	\$	\$	\$
37 Add lines 22, 24, 26, 28, 30, 32, 34, and 36	37	\$	\$	\$
38 Penalty. Add columns (a) through (d) of line 37. Enter the total here and on Form 1120, line 34; or the comparable line for other income tax returns	38			
		\$	244.	

* Use the penalty interest rate for each calendar quarter, which the IRS will determine during the first month in the preceding quarter. These rates are published quarterly in an IRS News Release and in a revenue ruling in the Internal Revenue Bulletin. To obtain this information on the Internet, access the IRS website at www.irs.gov. You can also call 1-800-829-4933 to get interest rate information.

FORM 990-PF
UNDERPAYMENT OF ESTIMATED TAX WORKSHEET

Name(s) AMATEUR RADIO DIGITAL COMMUNICATIONS					Identifying Number 45-3751971
(A) *Date	(B) Amount	(C) Adjusted Balance Due	(D) Number Days Balance Due	(E) Daily Penalty Rate	(F) Penalty
		-0-			
05/15/21	7,281.	7,281.	31	.000082192	19.
06/15/21	7,280.	14,561.	92	.000082192	110.
09/15/21	7,281.	21,842.	35	.000082192	63.
10/20/21	-25,320.	-3,478.			
12/15/21	7,280.	3,802.	106	.000082192	33.
03/31/22	0.	3,802.	45	.000109589	19.
Penalty Due (Sum of Column F).					244.

* Date of estimated tax payment, withholding credit date or installment due date.

FORM 990-PF	DIVIDENDS AND INTEREST FROM SECURITIES	STATEMENT	1
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SOURCE	GROSS AMOUNT	CAPITAL GAINS DIVIDENDS	(A) REVENUE PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME
SECURITIES	2,095,097.	0.	2,095,097.	2,095,097.	2,095,097.
TO PART I, LINE 4	2,095,097.	0.	2,095,097.	2,095,097.	2,095,097.

FORM 990-PF	LEGAL FEES	STATEMENT	2
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DESCRIPTION	(A) EXPENSES PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME	(D) CHARITABLE PURPOSES
LEGAL	14,993.	0.	0.	14,993.
TO FM 990-PF, PG 1, LN 16A	14,993.	0.	0.	14,993.

FORM 990-PF	ACCOUNTING FEES	STATEMENT	3
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DESCRIPTION	(A) EXPENSES PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME	(D) CHARITABLE PURPOSES
ACCOUNTING	8,750.	0.	0.	8,750.
TO FORM 990-PF, PG 1, LN 16B	8,750.	0.	0.	8,750.

FORM 990-PF	TAXES	STATEMENT	4
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DESCRIPTION	(A) EXPENSES PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME	(D) CHARITABLE PURPOSES
FEDERAL EXCISE TAX	269,691.	0.	0.	0.
TO FORM 990-PF, PG 1, LN 18	269,691.	0.	0.	0.

FORM 990-PF	OTHER EXPENSES			STATEMENT	5
DESCRIPTION	(A) EXPENSES PER BOOKS	(B) NET INVEST- MENT INCOME	(C) ADJUSTED NET INCOME	(D) CHARITABLE PURPOSES	
OTHER	50,137.	0.	0.	50,137.	
OFFICE EXPENSES	126,610.	0.	0.	126,610.	
TO FORM 990-PF, PG 1, LN 23	176,747.	0.	0.	176,747.	

FORM 990-PF	U.S. AND STATE/CITY GOVERNMENT OBLIGATIONS			STATEMENT	6
DESCRIPTION	U.S. GOV'T	OTHER GOV'T	BOOK VALUE	FAIR MARKET VALUE	
MONEY MARKET	X		5,407,107.	5,407,107.	
TOTAL U.S. GOVERNMENT OBLIGATIONS			5,407,107.	5,407,107.	
TOTAL STATE AND MUNICIPAL GOVERNMENT OBLIGATIONS					
TOTAL TO FORM 990-PF, PART II, LINE 10A			5,407,107.	5,407,107.	

FORM 990-PF	OTHER INVESTMENTS			STATEMENT	7
DESCRIPTION	VALUATION METHOD	BOOK VALUE	FAIR MARKET VALUE		
MUTUAL FUNDS - DOMESTIC	FMV	6,753,936.	6,753,936.		
MUTUAL FUNDS - INTERNATIONAL	FMV	14,283,911.	14,283,911.		
EXCHANGE TRADED FUNDS	FMV	112,439,669.	112,439,669.		
TOTAL TO FORM 990-PF, PART II, LINE 13		133,477,516.	133,477,516.		

FORM 990-PF	PART VII - LIST OF OFFICERS, DIRECTORS TRUSTEES AND FOUNDATION MANAGERS	STATEMENT	8
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NAME AND ADDRESS	TITLE AND AVRG HRS/WK	COMPEN- SATION	EMPLOYEE BEN PLAN CONTRIB	EXPENSE ACCOUNT
ELIZABETH SCHECHTER 5663 BALBOA AVE, #432 SAN DIEGO, CA 92111	EXECUTIVE DIRECTOR 32.00	107,585.	8,699.	0.
PHIL KARN 5663 BALBOA AVE, #432 SAN DIEGO, CA 92111	PRESIDENT 8.00	0.	0.	0.
A D BARKSDALE GARBEE II 5663 BALBOA AVE, #432 SAN DIEGO, CA 92111	TREASURER 8.00	4,555.	0.	0.
JOHN GILMORE 5663 BALBOA AVE, #432 SAN DIEGO, CA 92111	SECRETARY 12.00	0.	0.	0.
KIMBERLY CLAFFY 5663 BALBOA AVE, #432 SAN DIEGO, CA 92111	DIRECTOR 8.00	0.	0.	0.
KEITH PACKARD 5663 BALBOA AVE, #432 SAN DIEGO, CA 92111	DIRECTOR 12.00	0.	0.	0.
DR. ROBERT MCGWIER 5663 BALBOA AVE, #432 SAN DIEGO, CA 92111	DIRECTOR 3.00	0.	0.	0.
TOTALS INCLUDED ON 990-PF, PAGE 6, PART VII		112,140.	8,699.	0.

FORM 990-PF

EXPENDITURE RESPONSIBILITY STATEMENT
PART VI-B, LINE 5D

STATEMENT 9

GRANTEE'S NAME

AMATEUR RADIO EXPERIMENTERS GROUP, INC.

GRANTEE'S ADDRESS

PO BOX 921
MODBURY, AUSTRALIA

GRANT AMOUNT

8,300.

DATE OF GRANT

10/22/21

AMOUNT EXPENDED

0.

VERIFICATION DATE

04/19/22

PURPOSE OF GRANT

ENABLE OPERATING EXPENSES, FOCUS ON DEVELOPMENT OF THE PLATFORM WITH A
FOCUS ON DATA QUALITY, INCREASED DATA RATES, AND AMATEUR RADIO SPECIFIC
FEATURES

DATES OF REPORTS BY GRANTEE

NONE

ANY DIVERSION BY GRANTEE

NO

RESULTS OF VERIFICATION

NO ISSUES NOTED.

GRANTEE'S NAME

MISSISSIPPI VALLEY AMATEUR RADIO ASSOCIATION

GRANTEE'S ADDRESSN3070 SMITH VALLEY ROAD
LA CROSSE, WI 54601

<u>GRANT AMOUNT</u>	<u>DATE OF GRANT</u>	<u>AMOUNT EXPENDED</u>	<u>VERIFICATION DATE</u>
116,399.	10/08/21	0.	12/06/21

PURPOSE OF GRANTASSISTANCE FOR INSURANCE, MAINTENANCE, FUEL, AND EQUIPMENT UPGRADES FOR A
EMERGENCY COMMUNICATIONS BUS.DATES OF REPORTS BY GRANTEE

NONE

ANY DIVERSION BY GRANTEE

NO

RESULTS OF VERIFICATION

NO ISSUES NOTED.

**Application for Automatic Extension of Time To File an
Exempt Organization Return**

OMB No. 1545-0047

► **File a separate application for each return.**
► **Go to www.irs.gov/Form8868 for the latest information.**

Electronic filing (e-file). You can electronically file Form 8868 to request a 6-month automatic extension of time to file any of the forms listed below with the exception of Form 8870, Information Return for Transfers Associated With Certain Personal Benefit Contracts, for which an extension request must be sent to the IRS in paper format (see instructions). For more details on the electronic filing of this form, visit www.irs.gov/e-file-providers/e-file-for-charities-and-non-profits.

Automatic 6-Month Extension of Time. Only submit original (no copies needed).

All corporations required to file an income tax return other than Form 990-T (including 1120-C filers), partnerships, REMICs, and trusts must use Form 7004 to request an extension of time to file income tax returns.

Type or print File by the due date for filing your return. See instructions.	Name of exempt organization or other filer, see instructions. AMATEUR RADIO DIGITAL COMMUNICATIONS	Taxpayer identification number (TIN) 45-3751971
	Number, street, and room or suite no. If a P.O. box, see instructions. 5663 BALBOA AVE, 432	
	City, town or post office, state, and ZIP code. For a foreign address, see instructions. SAN DIEGO, CA 92111	

Enter the Return Code for the return that this application is for (file a separate application for each return) **0 4**

Application Is For	Return Code	Application Is For	Return Code
Form 990 or Form 990-EZ	01	Form 1041-A	08
Form 4720 (individual)	03	Form 4720 (other than individual)	09
Form 990-PF	04	Form 5227	10
Form 990-T (sec. 401(a) or 408(a) trust)	05	Form 6069	11
Form 990-T (trust other than above)	06	Form 8870	12
Form 990-T (corporation)	07		

BDALE GARBE, TREASURER

- The books are in the care of ► **5663 BALBOA AVE SUITE 432 - SAN DIEGO, CA 92111**

Telephone No. ► **619-693-2246**

Fax No. ► _____

- If the organization does not have an office or place of business in the United States, check this box ☐ **0**
- If this is for a Group Return, enter the organization's four digit Group Exemption Number (GEN) _____. If this is for the whole group, check this box ☐. If it is for part of the group, check this box ☐ and attach a list with the names and TINs of all members the extension is for.

- 1** I request an automatic 6-month extension of time until **NOVEMBER 15, 2022**, to file the exempt organization return for the organization named above. The extension is for the organization's return for:
► ☒ calendar year **2021** or
► ☐ tax year beginning _____, and ending _____.

- 2** If the tax year entered in line 1 is for less than 12 months, check reason: ☐ Initial return ☐ Final return
☐ Change in accounting period

3a If this application is for Forms 990-PF, 990-T, 4720, or 6069, enter the tentative tax, less any nonrefundable credits. See instructions.	3a	\$	30,320.
b If this application is for Forms 990-PF, 990-T, 4720, or 6069, enter any refundable credits and estimated tax payments made. Include any prior year overpayment allowed as a credit.	3b	\$	25,320.
c Balance due. Subtract line 3b from line 3a. Include your payment with this form, if required, by using EFTPS (Electronic Federal Tax Payment System). See instructions.	3c	\$	5,000.

Caution: If you are going to make an electronic funds withdrawal (direct debit) with this Form 8868, see Form 8453-TE and Form 8879-TE for payment instructions.