

## System for Award Management (SAM.gov) profile

Please identify your organization to be associated with this application.

All organization information in this section will come from the System for Award Management (SAM) profile for that organization.

### RAPID CITY, CITY OF

Information current from SAM.gov as of:	01/03/2021
DUNS (includes DUNS+4):	057222119
Employer Identification Number (EIN):	466000380
Organization legal name:	RAPID CITY, CITY OF
Organization (doing business as) name:	
Mailing address:	300 6TH STREET RAPID CITY, SD 57701-2724
Physical address:	300 6TH ST RAPID CITY, SD 57701-5034
Is your organization delinquent on any federal debt?	N
SAM.gov registration status:	Active as of 03/05/2020
<input checked="" type="checkbox"/> We have reviewed our bank account information on our SAM.gov profile to ensure it is up to date	

### Applicant information

Please provide the following additional information about the applicant.

Applicant name	Rapid City Fire Department
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### Main address of location impacted by this grant

Main address 1	10 Main Street
Main address 2	
City	Rapid City
State/territory	SD
Zip code	57701
Zip extension	2832

In what county/parish is your organization physically located? If you have more than one station, in what county/parish is your main station located? **Pennington**

## Applicant characteristics

The Assistance to Firefighters Grants Program's objective is to provide funding directly to fire departments and nonaffiliated EMS organizations or a State Fire Training Academy for the purpose of protecting the health and safety of the public and first responder personnel against fire and fire-related hazards. Please review the Notice of Funding Opportunity Announcement (NOFO) for information on available program areas and for more information on the evaluation process and conditions of award.

Please provide the following additional information about the applicant.

Applicant type: **Fire Department/Fire District**

Is this grant application a regional request? A regional request provides a direct regional and/or local benefit beyond your organization. You may apply for a regional request on behalf of your organization and any number of other participating eligible organizations within your region. **No**

What kind of organization do you represent? **All Paid/Career**

How many active firefighters does your department have who perform firefighting duties? **148**

How many of your active firefighters are trained to the level of Firefighter I or equivalent? **148**

How many of your active firefighters are trained to the level of Firefighter II or equivalent? **148**

Are you requesting training funds in this application to bring 100% of your firefighters into compliance with NFPA 1001? **No**

Which of the following standards does your organization meet regarding physicals? If physicals are not required then do not select any option. (optional)

☒ Meets NFPA or 1582 standard

☐ Meets NTSB or DOT standard

☐ Meets State/Local standard

How many members in your department are trained to the level of EMR or EMT, Advanced EMT or Paramedic? **148**

Does your department have a Community Paramedic? **Yes**

program?

How many personnel are trained to the Community Paramedic level? 8

How many stations are operated by your department? 8

Does your organization protect critical infrastructure of the state? Yes

Please describe the critical infrastructure protected below.

**Rapid City is the largest municipality in the western half of South Dakota. The Rapid City Metropolitan Area has an estimated population of approximately 150,000 persons. The list of critical infrastructure is extensive with the more noteworthy identified in this selection. Rapid City is home to Monument Health, the only Level II trauma center in a 300 mile radius and which takes patients from all of western South Dakota, northeast Wyoming, northwest Nebraska, and southeast Montana. Black Hills Corporation has made Rapid City its corporate headquarters and serves 1.28 million electric and natural gas utility customers in more than 800 communities in Arkansas, Colorado, Iowa, Kansas, Montana, Nebraska, South Dakota, and Wyoming. Black Hills Energy's primary electricity generators are located in Rapid City and cover over 120,000 customers in South Dakota as well as sending extra electricity to neighboring states and as far away as California. Rapid City is home to South Dakota School of Mines and Technology, not only a destination school for engineering students from around the world, but also performing world-class research. Rapid City Water and Solid Waste Division's provide services to the city and surrounding communities. Rapid City Fire Department provides aircraft rescue firefighting services for the Rapid City Regional Airport. It is the only airport in western South Dakota capable of accepting large passenger and cargo aircraft. Rapid City Regional Airport is home to the Army National Guard Aviation Readiness Center for helicopter pilot training as well as the 112th Medevac group. Rapid City is home to the South Dakota Army Joint Force Headquarters Readiness Center on Camp Rapid. Camp Rapid is also home to the 216th and 451st Engineer Detachments, Det. 2, Cyber Protection Team, and 707th JAG Detachment. Ellsworth Air Force Base is located**

approximately 10 miles Northeast of Rapid City. It is one of two Air Force Bases in the United States which support B-1 bomber wings and is home to flight control for MQ-9 Reaper drones around the world. Ellsworth Air Force Base has been chosen to be the first operational B-21 Raider bomber base and will be home to the formal training unit. Ellsworth Air Force Base utilizes water and sewer support from Rapid City and power from Black Hills Energy. Pennington County Emergency Dispatch Center supports emergency services in parts or all of 6 counties, as well as the South Dakota Highway Patrol throughout the state. The National Weather Service has a regional office located in Rapid City, this office monitors weather patterns and issues alerts for western South Dakota, north-eastern Wyoming, north-western Nebraska, and south-east Montana. Also located in Rapid City is a federal courthouse for the District of South Dakota. Century Link Communications Primary Switching Center is also present and acts as the primary routing location for regional telecommunications and 911 routers.

Do you currently report to the National Fire Incident Reporting System (NFIRS)? You will be required to report to NFIRS for the entire period of the grant. **Yes**

Please enter your FDIN/FDID. **02101**

## Operating budget

What is your organizations operating budget (e.g., personnel, maintenance of apparatus, equipment, facilities, utility costs, purchasing expendable items, etc.) dedicated to expenditures for day-to-day activities for the current (at time of application) fiscal year, as well as the previous two fiscal years?

Current fiscal year: **2021**

Fiscal Year	Operating budget
2021	\$12,193,314.00

<b>Fiscal Year</b>	<b>Operating budget</b>
2020	\$11,766,763.00
2019	\$11,484,322.00

What percentage of the declared operating budget is **88** dedicated to personnel costs (salary, benefits, overtime costs, etc.)?

<b>What percentage of the declared operating budget is derived from the following</b>	<b>2021</b>	<b>2020</b>	<b>2019</b>
Taxes	75	75	75
Bond issues	0	0	0
EMS billing	19	19	19
Grants	5	5	5
Donations	0	0	0
Fund drives	0	0	0
Fee for service	1	1	1
Other	0	0	0
<b>Totals</b>	<b>100 %</b>	<b>100 %</b>	<b>100 %</b>

Describe your financial need and how consistent it is with the intent of the AFG Program. Include details describing your organization's financial distress such as summarizing budget constraints, unsuccessful attempts to secure other funding, and proving the financial distress is out of your control.

**The State of South Dakota is currently utilizing a non-P25 compliant radio system which is based on a Motorola proprietary software and hardware system. This system serves all public service entities throughout the state. This includes all State and Local Fire Departments, all Law Enforcement agencies, all EMS agencies, all Emergency Management agencies, all state – county – local road services, all public works, and even all school bus drivers are housed on this system. Knowing that the system would need to be upgraded to a P25 compliant system, the State originally chose the date of July of 2023 for the**

system to change state-wide. Within the last year, the State has announced that they have moved the date up to February of 2022 for starting the roll out. The State also announced that the two main urban centers in South Dakota would be the alpha and beta sites for starting the system - so Sioux Falls and Rapid City are to be the first to make the change. Sioux Falls deferred to Rapid City to become the alpha site. The turn-on date for the alpha location is February of 2022. With this advance in the switch date, Rapid City was caught two budget cycles ahead of the original change date. The Rapid City Fire Department, as well as other city departments affected, had placed the radios to be bought - half in 2022 and half in 2023 - in order to be ready for the change. However, the fire department now needs to be ready by February of 2022 which means that all radios must be purchased in 2021, two years ahead of schedule. The State of South Dakota has not appropriated funding to assist local agencies with purchasing and upgrading their communications infrastructure to work with the new system. The State's funding has gone exclusively to the functional operation of the new system. There is no plausible method in which the Rapid City Fire Department can increase their budget in the amount required to purchase 130 mobile and portable radios. Due to the unknown impact of COVID-19, the mayor and city council cut all city department's budgets. The fire department day to day operations are funded by twelve percent of the overall operating budget. Of this twelve percent, \$282,740 was cut by the city in 2020. Due to the decrease in funding and the unknowns throughout the year, no funds were available to purchase updated radios. With this requested AFG, the fire department can assist the city in securing the radios it requires and while decreasing the financial burden the city is being placed under. The Department did also apply for an AFG last year for P25 compliant radios but was unsuccessful in that effort. Not getting assistance with funding will have a great impact on the Department, not only monetary, but in a safety aspect also. Monies that were to be used for day to day operations will have to be utilized to purchase radios. This may have an impact on fixes or updates to other equipment that will have to wait for other funds. P25 compliant radios are a high priority for the Department due to the

**possible negative impact of not having communication capabilities with other agencies. Communication is of the utmost priority when it comes to life safety.**

In cases of demonstrated economic hardship, and upon the request of the grant applicant, the FEMA Administrator may grant an Economic Hardship Waiver. Is it your organization's intent to apply for an Economic Hardship Waiver?

**No**

## Other funding sources

This fiscal year, are you receiving Federal funding from any other grant program for the same purpose for which you are applying for this grant?

**No**

This fiscal year, are you receiving Federal funding from any other grant program regardless of purpose?

**Yes**

Please provide an explanation for other funding sources in the space provided below.

**The Rapid City Fire Department was awarded a SAFER Grant, for six additional personnel, in 2020. These additional personnel have allowed the department to comply with NFPA 1710 and staff all engine/truck companies with four firefighters.**

## Applicant and community trends

Please provide the following additional information about the applicant.

Injuries and fatalities	2020	2019	2018
What is the total number of fire-related civilian fatalities in your jurisdiction over the last three calendar years?	2	0	2
What is the total number of fire-related civilian injuries in your jurisdiction over the last three calendar years?	3	9	5
What is the total number of line of duty member fatalities in your jurisdiction over the last three calendar years?	0	0	0
What is the total number of line of duty member injuries in your jurisdiction over the last three calendar years?	75	21	53

How many vehicles does your organization have in each of the type or class of vehicle listed below? You must include vehicles that are leased or on long-term loan as well as any vehicles that have been ordered or otherwise currently under contract for purchase or lease by your organization but not yet in your possession.



### Seated riding positions

The number of seated riding positions must be equal or greater than the total number of frontline and reserve apparatus. If there are zero frontline and zero reserve apparatus, the number of seated riding positions must be zero..

Type or class of vehicles	Number of frontline apparatus	Number of reserve apparatus	Number of seated riding positions
Engines or pumpers (pumping capacity of 750 gallons per minute (GPM) or greater and water capacity of 300 gallons or more): pumper, pumper/tanker, rescue/pumper, foam pumper, CAFS pumper, type I, type II engine urban interface.	6	3	28
Ambulances for transport and/or emergency response.	6	7	26
Tankers or tenders (water capacity of 1,000 gallons or more).	0	0	0
Aerial apparatus: aerial ladder truck, telescoping, articulating, ladder towers, platform, tiller ladder truck, quint.	3	0	18
Brush/quick attack (pumping capacity of less than 750 GPM and water carrying capacity of at least 300 gallons): brush truck, patrol unit (pickup w/ skid unit), quick attack unit, mini-pumper, type III engine, type IV engine, type V engine, type VI engine, type VII engine.	6	3	36
Rescue vehicles: rescue squad, rescue (light, medium, heavy), technical rescue vehicle, hazardous materials unit.	8	0	32
Additional vehicles: EMS chase vehicle, air/light unit, rehab units, bomb unit, technical support (command, operational support/supply), hose tender, salvage truck, ARFF (aircraft rescue firefighting), command/mobile communications vehicle.	9	6	30

Is your department facing a new risk, expanding service to a new area, or experiencing an increased call volume?

**Yes**

Please explain how your department is facing a new risk, expanding service to a new area, or experiencing an increased call volume.

**The South Dakota State radio system change will put the Rapid City Fire Department in a unique situation where working off the new and old system will be necessary for a time period. The system cannot change in one complete switch as was initially planned. Rather, the State chose to stagger the switch-over, with Rapid City being the first area switched. Not all departments around Rapid City will be included in the first switch thus causing the stagger to be ongoing and leaving**



the final departments to be completed on the original date of July of 2023. Rapid City Fire Department has automatic or mutual aid agreements with over 25 separate city, county, and state agencies to respond in assistance to structure and wildland fires. The department provides ALS primary response for 5,000 square miles around the city. This population coverage is over 100,000 people which are directly served by the EMS system. These numbers become necessary to report in that a majority of the automatic aid units and over 4,500 square miles of the EMS response area, will not be in the initial radio system change for Rapid City. Portions of these response areas are not scheduled to be covered until July of 2023 with the last scheduled switch. This discrepancy in the switching times means that the Rapid City Fire Department will be responding with agencies still utilizing the departing radio system. Inability of Rapid City Fire Department firefighters to communicate with mutual and automatic aid departments places firefighters of both departments in potential jeopardy. Critical information will not be able to be shared among all involved fire personnel in a timely manner. Fire ground safety demands that all personnel be able to be contacted in as short a time frame as possible. Similarly, personnel from the department manning ambulances must be able to communicate with units which will be left on the old system. Inability of the ambulance personnel to reach responders on scene would mean delayed or non-existent updates on patient condition, scene changes, or needs for additional units due to multiple patients. Delays such as these would drastically alter outcomes of patient treatment. The Rapid City Fire Department has seen a constant four percent increase in call volume over the last couple of years. The continued increase in call volume only compounds the difficulties associated with the switch to the P-25 compliant system. More call volume only means the more times the radios and system will be utilized to maintain prompt communications.

## Community description

Please provide the following additional information about the community your organization serves.

Type of jurisdiction served **City**

What type of community does your organization serve? **Urban**

What is the square mileage of your first due response zone/jurisdiction served? **56**

What percentage of your primary response area is protected by hydrants? **95**

What percentage of your primary response area is for the following:	Percentage (must sum to 100%)
Agriculture, wildland, open space, or undeveloped properties	10
Commercial and industrial purposes	25
Residential purposes	65
<b>Total</b>	<b>100</b>

What is the permanent resident population of your first due response zone/jurisdiction served? **75000**

Do you have a seasonal increase in population? **Yes**

What is your seasonal increase in population (number of people)? **200000**

Please describe your organization and/or community that you serve.

**The Rapid City Fire Department is a career-based organization which operates as the primary fire suppression and EMS provider for the 75,000 people of Rapid City and offers automatic and mutual aid to another 75,000 people in adjacent communities. In 2020, the department responded to over 19,500 calls for service. The number of calls has risen at a steady rate of about four percent each year. The department operates with a uniformed presence of 144 firefighters working three shifts providing 24 – 7 – 365 coverage. The department has three divisions to fulfill its mission of: Prepare, Prevent, and Protect. Those divisions include: Fire and Life Safety, Fire**

**Operations, and EMS Operations. All divisions work with department personnel and the public to create a cohesive message to reduce risk and enhance response to emergencies. Along with suppression of structural fires, RCFD provides response to wildland fires, ARFF incidents, Technical Rescue (water, high and low angle, ice, and extrication), Heavy Rescue (trench, collapse, and USAR), Hazardous Materials Response (decontamination, technician and specialist), and participant support in Type 1 and Type 2 Incident Management Teams. Rapid City Fire Department's EMS division's area of responsibility extend far beyond the city's defined borders. The EMS division responds as initial medical transport agency to an area of 10 to 40 miles in each direction from the city. In addition, RCFD EMS responds as the primary Advanced Life Support assistance to three BLS ambulance services outside of the primary response area. Rapid City Fire Department is the long distance patient transfer (up to 650 mile) agency for Monument Health Care and other health care facilities in the city. RCFD EMS provides Critical Care transport, Tactical EMS personnel, Special Pathogen and Hazardous Chemical patient care and transport, and the only bariatric patient transport capability within the state. Rapid City is the economic, business, and medical hub for western South Dakota and the Black Hills. Rapid City claims a permanent population of 75,000 with a workday population of 90,000 and a weekend population over 100,000. Along with the critical infrastructure described above, the city boasts over 4,000 hotel rooms, four major shopping centers, a rejuvenated downtown district with weekly gatherings, unique parks and hiking trails in the city. The City also acts as the gateway to the Black Hills, which is home to Mount Rushmore with annual tourist visitation of approximately two million persons. Rapid City is centered among eight national monuments and state/national parks. It is over 300 miles in any direction before encountering a municipality of equal size and capabilities. This leaves Rapid City as a cultural and economic center for business and social events. Rapid City is home to the Black Hills Stock Show and Rodeo, one of the largest events of its kind in the United States, at one time only surpassed by the Houston Stock Show. During the annual Sturgis Motorcycle Rally, Rapid City is**

a large partner in hosting events and locations for people to find rooms and dining locations. The Black Hills are a well-known spiritual center for numerous Indigenous Americans such as the Cheyenne, Lakota, Blackfoot, and other plains tribes. This brings them to Rapid City for large events such as the Black Hills Pow Wow, Lakota Invitational Basketball Tournament, and rotational location for the Indian National Finals Rodeo.

## Call volume

Summary	2020	2019	2018
Fire - NFIRS Series 100	402	388	338
Overpressure Rupture, Explosion, Overheat (No Fire) - NFIRS Series 200	30	19	16
Rescue & Emergency Medical Service Incident - NFIRS Series 300	12571	13313	13487
Hazardous Condition (No Fire) - NFIRS Series 400	163	201	213
Service Call - NFIRS Series 500	4063	2404	1865
Good Intent Call - NFIRS Series 600	1270	1046	987
False Alarm & Falls Call - NFIRS Series 700	907	924	903
Severe Weather & Natural Disaster - NFIRS Series 800	6	3	4
Special Incident Type - NFIRS Series 900	13	20	25
Total	19425	18318	17838

## Fire

How many responses per year per category?	2020	2019	2018
"Structure Fire" (Of the NFIRS Series 100 calls, NFIRS Codes 111-120)	204	259	218

How many responses per year per category?	2020	2019	2018
"Vehicle Fire" (Of the NFIRS Series 100 calls, NFIRS Codes 130-138)	40	39	39
"Vegetation Fire" (Of the NFIRS Series 100 calls, NFIRS Codes 140-143)	67	24	37
Total	311	322	294

Total acreage per year	2020	2019	2018
Total acreage of all vegetation fires	38	8	6

## Rescue and emergency medical service incidents

How many responses per year per category?	2020	2019	2018
"Motor Vehicle Accidents" (Of the NFIRS Series 300 calls, NFIRS Codes 322-324)	345	667	663
"Extrications from Vehicles" (Of the NFIRS Series 300 calls, NFIRS Code 352)	1	4	2
"Rescues" (Of the NFIRS Series 300 calls, NFIRS Code 300, 351, 353-381)	271	260	367
EMS-BLS Response Calls	5507	5251	5322
EMS-ALS Response Calls	3814	4446	4880
EMS-BLS Scheduled Transports	198	171	175
EMS-ALS Scheduled Transports	17	27	23
Community Paramedic Response Calls	4162	1647	469
Total	14315	12473	11901

## Mutual and automatic aid

How many responses per year per category?	2020	2019	2018
Amount of times the organization received Mutual Aid	1	0	16

How many responses per year per category?	2020	2019	2018
Amount of times the organization received Automatic Aid	1	6	20
Amount of times the organization provided Mutual Aid	15	28	45
Amount of times the organization provided Automatic Aid	23	26	32
Of the Mutual and Automatic Aid responses, amount that were structure fires	18	4	13
Total	58	64	126

## Grant request details

Are you requesting a Micro Grant? A Micro Grant is **No**  
limited to \$50,000 in federal resources.

**Grant request details Grand total:**  
**\$528,415.14**

**Program area: Operations and safety**

**Total requested for Equipment activity:**  
**\$528,415.14**

**Portable Radios (must be P-25 Compliant, limited to number of AFG approved seated positions)**

QUANTITY	UNIT PRICE	TOTAL	BUDGET CLASS
16	\$589.50	\$9,432.00	Equipment

### DESCRIPTION

This portion of the request is for a six-bay battery charger/conditioner. This will provide charging space for each spare battery while not in use. The charger/conditioner will prolong the service life of the batteries purchased with the radios.

### More Details for Portable Radios (must be P-25 Compliant, limited to number of AFG approved seated positions).

Generally the equipment purchased under this grant program will:

**Replace non-compliant equipment to current standard**

Specify the age of equipment in years:

**13**

Will the equipment being requested bring the organization into voluntary compliance with a national standard, e.g. compliance with NFPA, OSHA, etc? In your narrative statement, please explain how this equipment will bring the organization into voluntary compliance.

**Yes**

Is your department trained in the proper use of the equipment being requested?

**Yes**

Are you requesting funding to be trained for these item(s)? (Funding for requested training should be requested as additional funding).

**No**

If you are not requesting training funds through this application, will you obtain training for this equipment through other sources?

**Yes**

### Mobile Radios (must be P-25 Compliant)

QUANTITY	UNIT PRICE	TOTAL	BUDGET CLASS
2	\$5,644.65	\$11,289.30	Equipment

#### DESCRIPTION

Motorola APX 6500 Mobile Radio (P-25 Compliant). This portion of the request is dual head radios for the departments ambulances . These radios are configured with AES Encryption to allow inter agency communication with local law enforcement during incidents. The dual head model is necessary for the departments ambulances in order to operate the radio from either the cab or the patient treatment area of the ambulance.

### More Details for Mobile Radios (must be P-25 Compliant).

Generally the equipment purchased under this grant program will:

**Replace non-compliant equipment to current standard**

Specify the age of equipment in years:

**11**

Will the equipment being requested bring the organization into voluntary compliance with a national standard, e.g. compliance with NFPA, OSHA, etc? In your narrative statement, please explain how this equipment will bring the organization into voluntary compliance. **Yes**

Is your department trained in the proper use of the equipment being requested? **Yes**

Are you requesting funding to be trained for these item(s)? (Funding for requested training should be requested as additional funding). **No**

If you are not requesting training funds through this application, will you obtain training for this equipment through other sources? **Yes**

### **Portable Radios (must be P-25 Compliant, limited to number of AFG approved seated positions)**

QUANTITY	UNIT PRICE	TOTAL	BUDGET CLASS
20	\$4,344.91	\$86,898.20	Equipment

#### **DESCRIPTION**

Motorola APX 4000 Portable Radio (P-25 Compliant). This portion of the request is for portable radios for the department chief officers and for the officer riding positions of responding apparatus. This request includes the radio with battery, enhanced microphone, field programmable, spare battery, and charging station. These radios are configured with AES Encryption to allow inter agency communication with local law enforcement during incidents.

### **More Details for Portable Radios (must be P-25 Compliant, limited to number of AFG approved seated positions).**

Generally the equipment purchased under this grant program will: **Replace non-compliant equipment to current standard**

Specify the age of equipment in years: **16**

Will the equipment being requested bring the organization into voluntary compliance with a national standard, e.g. compliance with NFPA, OSHA, etc? In your narrative statement, please explain how this equipment will bring the organization into voluntary compliance. **Yes**



Is your department trained in the proper use of the equipment being requested? **Yes**

Are you requesting funding to be trained for these item(s)? (Funding for requested training should be requested as additional funding). **No**

If you are not requesting training funds through this application, will you obtain training for this equipment through other sources? **Yes**

### Mobile Radios (must be P-25 Compliant)

QUANTITY	UNIT PRICE	TOTAL	BUDGET CLASS
40	\$3,841.05	\$153,642.00	Equipment

#### DESCRIPTION

Motorola APX 4500 Mobile Radio (P-25 Compliant). This portion of the request is for single head mobile radios for the department's fire apparatus and chief officers vehicles. This request includes the radio configured with AES Encryption to allow inter agency communication with local law enforcement during incidents. This portion of the project will update the radios in the remaining department fleet which have not already been updated.

### More Details for Mobile Radios (must be P-25 Compliant).

Generally the equipment purchased under this grant program will: **Replace non-compliant equipment to current standard**

Specify the age of equipment in years: **16**

Will the equipment being requested bring the organization into voluntary compliance with a national standard, e.g. compliance with NFPA, OSHA, etc? In your narrative statement, please explain how this equipment will bring the organization into voluntary compliance. **Yes**

Is your department trained in the proper use of the equipment being requested? **Yes**

Are you requesting funding to be trained for these item(s)? (Funding for requested training should be requested as additional funding). **No**

If you are not requesting training funds through this application, will you obtain training for this **Yes**

equipment through other sources?

### **Portable Radios (must be P-25 Compliant, limited to number of AFG approved seated positions)**

QUANTITY	UNIT PRICE	TOTAL	BUDGET CLASS
68	\$3,928.73	\$267,153.64	Equipment

#### **DESCRIPTION**

Motorola APX 4000 Portable Radio (P-25 Compliant). This portion of the request is for portable radios for each remaining riding position on the departments apparatus. This request includes the radio with battery, enhanced microphone, non-field programmable, and spare battery. These radios are configured with AES Encryption to allow inter agency communication with local law enforcement during incidents.

### **More Details for Portable Radios (must be P-25 Compliant, limited to number of AFG approved seated positions).**

Generally the equipment purchased under this grant program will:

**Replace non-compliant equipment to current standard**

Specify the age of equipment in years:

**16**

Will the equipment being requested bring the organization into voluntary compliance with a national standard, e.g. compliance with NFPA, OSHA, etc? In your narrative statement, please explain how this equipment will bring the organization into voluntary compliance.

**Yes**

Is your department trained in the proper use of the equipment being requested?

**Yes**

Are you requesting funding to be trained for these item(s)? (Funding for requested training should be requested as additional funding).

**No**

If you are not requesting training funds through this application, will you obtain training for this equipment through other sources?

**Yes**

### **More Details for Equipment.**

## Narrative

### Project Description

The current, and soon departing, state radio system is built on proprietary Motorola technology, thus only Motorola designed and approved radios are compatible with it. The new system which will bring the state into compliance with P25 standards will not have proprietary technology. This new system will be open to almost all radio manufactures. Only the currently-approved Motorola radios are capable of working on the old Motorola system and will be P25 compliant to work on the new one. A majority of the current fire department radios were purchased over 13 years ago. They are Motorola radios and are capable of working on the old system. However these radios do not meet the P25 compliance requirement for the new system. The department was preparing for the change in 2023 by spreading the cost of replacing the non P25 compliant radios over three budget cycles to be ready for change over. With the changeover being moved up and now coming at the beginning of 2022, this took away two budget cycles which would have been used for purchasing the new radios. Two years ago, the Rapid City Fire Department contacted Motorola and Kenwood in order to trial their respective portable radios in order to determine the best product. The Motorola Portable Radio performed better than the Kenwood due to a clearer remote speaker/microphone which was also the easier microphone to operate while wearing personal protective equipment. The Motorola radio is also able to connect with current SCBA through Bluetooth. The Kenwood radios were not able to connect with SCBA in this way. To conduct extended testing, the department purchased a first round of the portable radios for a few officer positions in front-line fire response apparatus. The final determination was that the Motorola was the most appropriate radio. The radio replacement project will assure that all radios which will be rendered inoperable with the P25 change are replaced prior to the new system being activated in Rapid City. This involves replacing 88 portable radios which will place one radio in each riding position on front line structural, wildland, rescue, hazardous materials, chief officers and EMS units. The

department has already purchased 44 of the 132 total portable radios that the project requires. Under the departing radio system Rapid City Fire Department had one portable radio per front line apparatus riding position, giving each individual the ability to contact the incident commander, other units on scene, and the dispatch center. This was done to follow NFPA 1710 for structural firefighting, NIOSH recommendations for personnel safety, and NWCG recommendations for wildland firefighting. Changing the radios of each front-line apparatus position will allow each individual firefighter to be able to utilize one radio to operate on both the departing and the incoming radio systems throughout the system changeover and years into the future. A total of 42 mobile radios will also be changed to replace the soon to be obsolete radios. The breakdown of the radio disbursement includes 7 of the 9 structural fire suppression apparatus, 2 of the 13 EMS units, 3 of the 3 aerial apparatus, 6 of the 9 wildland fire suppression units 11 of the 14 rescue/special operations units, and 13 of the 15 additional/support vehicles. The other Fire Department vehicles are already equipped with P25 and Motorola compatible radios. The Department had been equipping its newer vehicles with the dual compatible radios as they arrived in the expectation that the equipment would be in service well beyond the radio transition date. Recently the Department was able to secure funding for 11 radios of the needed 13 for EMS units. These new radios will also allow inter agency communication with local law enforcement, who are currently utilizing AES encryption. This will allow information to be transferred between agencies decreasing safety concerns.

#### Cost/Benefit

The request of radios will not provide each firefighter their own personal radio to carry on and off duty. With a department size of 148 operations personnel and an incident overhead potential adding 13 more, the department would need to request 161 radios in order to attain this level. And even 161 radios would not be sufficient for every person when taking into account radio downtime for repairs, updates, damage, or even firefighters forgetting their

radio when coming to work. Rather this AFG request would place a radio in each position in which a firefighter may ride. With the radios remaining in the riding position rather than with the firefighter, fewer radios are needed. Maintaining the radios in this pattern is imperative to safety as it will assure that there is a radio available for any firefighter who mounts the apparatus. Group reliability on a single radio in one person's possession creates an unacceptable hazardous condition should the group come apart for any reason or the person with the radio encounters a problem situation. This also demands that a three to five person crew operate as a single resource. Each firefighter having a radio can allow the crew to be placed into two to three person teams, expanding the capability of the single company. The department has already placed a significant investment in the purchase of the radios. The department has purchased 44 portable and 15 mobile radios which meet the requested parameters for this grant. This is thirty-three percent of the total 132 portable, and twenty-six percent of the total 57 mobile required radio package needed by the beginning of 2022. The majority of the portable radio purchase had been planned closer to the changeover date in order to determine the most appropriate radio for the department's future. With a full state switch, the plan had been to choose a single radio that would take effect at the changeover. The department and all neighboring entities would have moved to the new system at the same time. However, with Rapid City being chosen as the Alpha site in the state, the radio system switch for the Rapid City Fire Department's area was moved up by a year. This move will now leave neighboring and assisting entities left on a different radio system which therefore left the Rapid City Fire Department with two options to pursue: 1) continue with the original plan of the P25 compliant radio for the Rapid City switch date and be in a position of requiring each person to maintain 2 radios while multiple radio systems are in place; or, 2) purchase a radio which would meet the requirements for operating on both systems. The second option was selected due to simplicity and firefighter safety. The department had purchased more mobile radios

## Statement of Effect

prior to this request for placing in new or replacement apparatus. Apparatus purchased in the last five years have a scheduled service life which extends well past the date of the radio change over. It was not prudent to place a radio in a new apparatus that would require replacement prior to the end of the service life of the apparatus. Secondly, purchasing the radio earlier saves money simply due to the natural increase in price of equipment over time.

The Rapid City Fire Department has 112 active riding seats on front-line response apparatus. With a daily operational force of 45 firefighters, the determination for 112 riding positions is predicated on each crew cross-staffing multiple apparatus each shift in order to respond appropriately to the cause of an incident. As an example, the crew of a structural fire engine will also staff a wildland apparatus operating out of the same station. Each station also has at least one specialty response vehicle in either light rescue, heavy rescue, or hazardous materials. The total number of department radios also includes 20 positions of Chief Officers, Battalion Chiefs, EMS Chiefs, PIO, Community Paramedic, and Training Section Officers. Placing a radio for each firefighter on each piece of apparatus serves two positive effects. The first is that firefighters can set the radio in each apparatus to the appropriate channels which will be used at the incident. Structural fire and wildland fire utilize different operational channels due to the assistance which arrives with each incident. The second effect is that should one of the pieces of apparatus be engaged in a long duration incident and the Department has to backfill the station, the arriving firefighters will have access to portable radios on the apparatus remaining in the station. This assures that the backfill firefighters have access to radios for them to function properly on incidents to which they will respond. The department has 70 mobile radios in use including apparatus, base stations, and specialized response units. Having mobile radios in every response apparatus is operationally important due to the increased output and reception of a mobile unit. Twenty-five percent of the city is


considered Wildland Urban Interface. This type of environment significantly limits the ability of portable radios which makes access to mobile radios a necessity. The mobile radio request also includes 2 dual-head radios for use in the transport ambulances. While responding to an incident, both crew members will be in the cab of the ambulance and will be using a radio head. While transporting a patient, one crew member will be in the patient treatment area of the ambulance and will need access to the radio for contact with medical facilities or other responders. Therefore, a second head would be placed in this patient area for the second crew member to utilize in these needed communications. Local law enforcement agencies are planning on encrypting their channels and in order to maintain communications with them, AES Encryption was added to all radios. This feature will allow secured communications among agencies.

## Grant request summary

The table below summarizes the number of items and total cost within each activity you have requested funding for. This table will update as you change the items within your grant request details.

### Grant request summary

Activity	Number of items	Total cost
Equipment	5	\$528,415.14
<b>Total</b>	<b>5</b>	<b>\$528,415.14</b>

Is your proposed project limited to one or more of the following activities  : Planning and development of policies or processes. Management, administrative, or personnel actions. Classroom-based training. Acquisition of mobile and portable equipment (not involving installation) on or in a building.

Yes

## Budget summary

## Budget summary

Object class categories	Total
Personnel	\$0.00
Fringe benefits	\$0.00
Travel	\$0.00
Equipment	\$528,415.14
Supplies	\$0.00
Contractual	\$0.00
Construction	\$0.00
Other	\$0.00
<b>Total direct charges</b>	<b>\$528,415.14</b>
Indirect charges	\$0.00
<b>TOTAL</b>	<b>\$528,415.14</b>
<b>Non-federal resources</b>	
Applicant	\$48,037.74
State	\$0.00
Other sources	\$0.00
Remarks	
<b>Total Federal and Non-federal resources</b>	
Federal resources	\$480,377.40
Non-federal resources	\$48,037.74
<b>TOTAL</b>	<b>\$528,415.14</b>
Program income	\$0.00

## Contact information



No

## Secondary point of contact

Please provide a secondary point of contact for this grant.

The Authorized Organization Representative (AOR) who submits the application will be identified as the primary point of contact for the grant. Please provide one secondary point of contact for this grant below. The secondary contact can be members of the fire department or organizations applying for the grant that will see the grant through completion, are familiar with the grant application, and have the authority to make decisions on and to act upon this grant application. The secondary point of contact can also be an individual who assisted with the development, preparation, or review of the application.

<b>Brian Povandra</b> Division Chief  <a href="mailto:brian.povandra@rcgov.org">brian.povandra@rcgov.org</a>	<b>Primary phone</b> 6053944180 Work  <b>Fax</b>	<b>Additional phones</b> 6056451417 Mobile
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## Assurance and certifications

OMB number: 4040-0007, Expiration date: 02/28/2022 [View burden statement](#)

### SF-424B: Assurances - Non-Construction Programs

OMB Number: 4040-0007

Expiration Date: 02/28/2022

Certain of these assurances may not be applicable to your project or program. If you have any questions, please contact the awarding agency. Further, certain Federal awarding agencies may require applicants to certify to additional assurances. If such is the case, you will be notified.

As the duly authorized representative of the applicant, I certify that the applicant:

1. Has the legal authority to apply for Federal assistance and the institutional, managerial and financial capability (including funds sufficient to pay the non-Federal share of project cost) to ensure proper planning, management and completion of the project described in this application.
2. Will give the awarding agency, the Comptroller General of the United States and, if appropriate, the State, through any authorized representative, access to and the right to examine all records, books, papers, or documents related to the award; and will establish a proper accounting system in accordance with generally accepted accounting standards or agency directives.

3. Will establish safeguards to prohibit employees from using their positions for a purpose that constitutes or presents the appearance of personal or organizational conflict of interest, or personal gain.
4. Will initiate and complete the work within the applicable time frame after receipt of approval of the awarding agency.
5. Will comply with the Intergovernmental Personnel Act of 1970 (42 U.S.C. §§4728-4763) relating to prescribed standards for merit systems for programs funded under one of the 19 statutes or regulations specified in Appendix A of OPM's Standards for a Merit System of Personnel Administration (5 C.F.R. 900, Subpart F).
6. Will comply with all Federal statutes relating to nondiscrimination. These include but are not limited to: (a) Title VI of the Civil Rights Act of 1964 (P.L. 88-352) which prohibits discrimination on the basis of race, color or national origin; (b) Title IX of the Education Amendments of 1972, as amended (20 U.S.C. §§1681-1683, and 1685-1686), which prohibits discrimination on the basis of sex; (c) Section 504 of the Rehabilitation Act of 1973, as amended (29 U.S.C. §794), which prohibits discrimination on the basis of handicaps; (d) the Age Discrimination Act of 1975, as amended (42 U.S.C. §§6101-6107), which prohibits discrimination on the basis of age; (e) the Drug Abuse Office and Treatment Act of 1972 (P.L. 92-255), as amended, relating to nondiscrimination on the basis of drug abuse; (f) the Comprehensive Alcohol Abuse and Alcoholism Prevention, Treatment and Rehabilitation Act of 1970 (P.L. 91-616), as amended, relating to nondiscrimination on the basis of alcohol abuse or alcoholism; (g) §§523 and 527 of the Public Health Service Act of 1912 (42 U.S.C. §§290 dd-3 and 290 ee- 3), as amended, relating to confidentiality of alcohol and drug abuse patient records; (h) Title VIII of the Civil Rights Act of 1968 (42 U.S.C. §§3601 et seq.), as amended, relating to nondiscrimination in the sale, rental or financing of housing; any other nondiscrimination provisions in the specific statute(s) under which application for Federal assistance is being made; and, (j) the requirements of any other nondiscrimination statute(s) which may apply to the application.
7. Will comply, or has already complied, with the requirements of Titles II and III of the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970 (P.L. 91-646) which provide for fair and equitable treatment of persons displaced or whose property is acquired as a result of Federal or federally-assisted programs. These requirements apply to all interests in real property acquired for project purposes regardless of Federal participation in purchases.
8. Will comply, as applicable, with provisions of the Hatch Act (5 U.S.C. §§1501-1508 and 7324-7328) which limit the political activities of employees whose principal employment activities are funded in whole or in part with Federal funds.
9. Will comply, as applicable, with the provisions of the Davis-Bacon Act (40 U.S.C. §§276a to 276a-7), the Copeland Act (40 U.S.C. §276c and 18 U.S.C. §874), and the Contract Work Hours and Safety Standards Act (40 U.S.C. §§327-333), regarding labor standards for federally-assisted construction subagreements.
10. Will comply, if applicable, with flood insurance purchase requirements of Section 102(a) of the Flood Disaster Protection Act of 1973 (P.L. 93-234) which requires recipients in a special flood hazard area to participate in the program and to purchase flood insurance if the total cost of insurable construction and acquisition is \$10,000 or more.
11. Will comply with environmental standards which may be prescribed pursuant to the following: (a) institution of environmental quality control measures under the National Environmental Policy Act of 1969 (P.L. 91-190) and Executive Order (EO) 11514; (b) notification of violating facilities pursuant to EO 11738; (c) protection of wetlands pursuant to EO 11990; (d) evaluation of flood hazards in floodplains in accordance with EO 11988; (e) assurance of project consistency with the approved State management program developed under the Coastal Zone Management Act of 1972 (16 U.S.C. §§1451 et seq.); (f) conformity of Federal actions to State (Clean Air) Implementation Plans under Section 176(c) of the Clean Air Act of 1955, as amended (42 U.S.C. §§7401 et seq.); (g) protection of underground sources of drinking water under the Safe Drinking

Water Act of 1974, as amended (P.L. 93-523); and, (h) protection of endangered species under the Endangered Species Act of 1973, as amended (P.L. 93-205).

12. Will comply with the Wild and Scenic Rivers Act of 1968 (16 U.S.C. §§1271 et seq.) related to protecting components or potential components of the national wild and scenic rivers system.
13. Will assist the awarding agency in assuring compliance with Section 106 of the National Historic Preservation Act of 1966, as amended (16 U.S.C. §470), EO 11593 (identification and protection of historic properties), and the Archaeological and Historic Preservation Act of 1974 (16 U.S.C. §§469a-1 et seq.).
14. Will comply with P.L. 93-348 regarding the protection of human subjects involved in research, development, and related activities supported by this award of assistance.
15. Will comply with the Laboratory Animal Welfare Act of 1966 (P.L. 89-544, as amended, 7 U.S.C. §§2131 et seq.) pertaining to the care, handling, and treatment of warm blooded animals held for research, teaching, or other activities supported by this award of assistance.
16. Will comply with the Lead-Based Paint Poisoning Prevention Act (42 U.S.C. §§4801 et seq.) which prohibits the use of lead-based paint in construction or rehabilitation of residence structures.
17. Will cause to be performed the required financial and compliance audits in accordance with the Single Audit Act Amendments of 1996 and OMB Circular No. A-133, "Audits of States, Local Governments, and Non-Profit Organizations."
18. Will comply with all applicable requirements of all other Federal laws, executive orders, regulations, and policies governing this program.
19. Will comply with the requirements of Section 106(g) of the Trafficking Victims Protection Act (TVPA) of 2000, as amended (22 U.S.C. 7104) which prohibits grant award recipients or a sub-recipient from (1) Engaging in severe forms of trafficking in persons during the period of time that the award is in effect (2) Procuring a commercial sex act during the period of time that the award is in effect or (3) Using forced labor in the performance of the award or subawards under the award.

## Certifications regarding lobbying

OMB Number: 4040-0013

Expiration Date: 02/28/2022

### Certification for Contracts, Grants, Loans, and Cooperative Agreements

The undersigned certifies, to the best of his or her knowledge and belief, that:

1. No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.
2. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions.
3. The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under

grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly. This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

#### Statement for Loan Guarantees and Loan Insurance

The undersigned states, to the best of his or her knowledge and belief, that:

If any funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this commitment providing for the United States to insure or guarantee a loan, the undersigned shall complete and submit Standard Form-LLL, "Disclosure of Lobbying Activities," in accordance with its instructions. Submission of this statement is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required statement shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

OMB number: 4040-0013, Expiration date: 02/28/2022 [View burden statement](#)

## SF-LLL: Disclosure of Lobbying Activities

OMB Number: 4040-0013

Expiration Date: 02/28/2022

Complete only if the applicant is required to do so by 44 C.F.R. part 18. Generally disclosure is required when applying for a grant of more than \$100,000 and if any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions. Further, the recipient shall file a disclosure form at the end of each calendar quarter in which there occurs any event described in 44 C.F.R. § 18.110(c) that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed by the applicant.

The applicant is not currently required to submit the SF-LLL.

## Notice of funding opportunity

I certify that the applicant organization has consulted the appropriate Notice of Funding Opportunity and that all requested activities are programmatically allowable, technically feasible, and can be completed within the award's Period of Performance (POP).

## Accuracy of application

I certify that I represent the organization applying for this grant and have reviewed and confirmed the accuracy of all application information submitted. Regardless of intent, the submission of information that is false or misleading may result in actions by FEMA that include, but are not limited to: the submitted application not being considered for award, enforcement actions taken against an existing award pending investigation or review, or referral to the DHS Office of Inspector General.

## **Authorized Organizational Representative for the grant**

By signing this application, I certify that I understand that inputting my password below signifies that I am the identified Authorized Organization Representative for this grant. Further, I understand that this electronic signature shall bind the organization as if the application were physically signed and filed.

## **Authorization to submit application on behalf of applicant organization**

By signing this application, I certify that I am either an employee or official of the applicant organization and am authorized to submit this application on behalf of my organization; or, if I am not an employee or official of the applicant organization, I certify that the applicant organization is aware I am submitting this application on its behalf, that I have written authorization from the applicant organization to submit this application on their behalf, and that I have provided contact information for an employee or official of the applicant organization in addition to my contact information.

