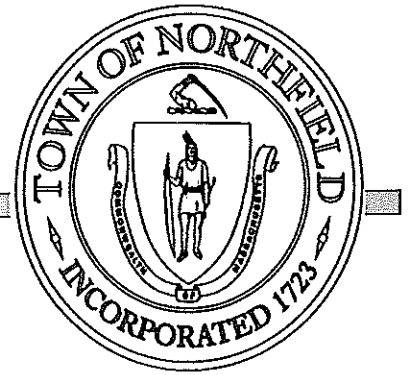# TOWN OF NORTHFIELD

Conservation Commission

69 Main Street, Northfield, Massachusetts 01360

Phone: (413) 498-2901     Fax: (413) 498-5103     www.northfield.ma.us

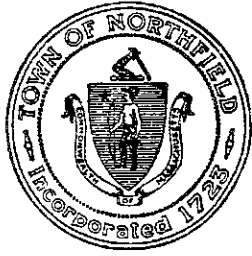To: Northfield Selectboard

From: Northfield Conservation Commission

Re: Tennessee Gas Pipeline

The Northfield Conservation Commission has several concerns about the Kinder Morgan natural gas pipeline that is currently routed across a substantial part of town. This letter expresses the concerns that we have, that we would like to have addressed before any final location of a pipeline is established, before any specifications of how the pipeline will be constructed in town are finalized, and before any work is started on the ground.

1.  The pipeline should be placed in locations where impacts to wetlands, riparian areas and vernal pools are minimized. General mapping of the wetland resources is available from MassGIS, but there are a lot of wetlands that exist that do not show in this mapping resource. Detailed, on the ground mapping needs to be completed along the proposed route of the pipeline so that the exact location of the pipeline can be established where impacts to wetland resources are avoided.

2.  Known locations of rare and endangered species need to be avoided wherever possible. The pipeline mapping needs to reference the Natural Heritage and Endangered Species Program in order to ensure that rare and endangered species are protected.

3.  Town conservation land – Brush Mountain Conservation Area and the Northfield Town Forest are located along the high tension power lines where the pipeline is proposed. If the pipeline follows on one side or the other of the power line, one or the other of these properties will be impacted. These lands have been designated with permanent protection - clearing for a pipeline is well outside of the scope of the appropriate use of these lands. In addition, there are recreational trails located in these areas, including the New England National Scenic Trail. A pipeline in the vicinity of the town's recreational resources is not a desired outcome. Alternative routes need to be explored to avoid the town's conservation lands. If no other route is possible, Kinder Morgan needs to be responsible for replication of this type of permanently protected open space.

4.  Richardson Conservation Restriction – The Richardson property is permanently protected by a conservation restriction held by the Northfield Conservation Commission. This property contains multiple trails, including the New England National Scenic Trail, as well as a cabin for through-hikers. Alternative routes need to be explored to avoid the town's conservation lands. If no other route is possible, Kinder Morgan needs to be responsible for replication of this type of permanently protected open space.

5.  Erosion concerns – The route proposed contains very rugged terrain with shallow soils, exposed bedrock and steep slopes. Very explicit plans for preventing erosion need to be provided in these areas before excavation, blasting, or other construction begins on the pipeline. Erosion in these types of areas can spread very rapidly, and due to the terrain, can result in sedimentation of watercourses in the area if not handled properly. Four Mile Brook, a sensitive brook that feeds into the Connecticut

River, runs near the powerline and the proposed pipeline location. This river does not need any additional sources of sedimentation from commercial construction activities.

6. Water diversion – The commission has learned of the possibility that the pipeline will not be buried 3 feet below the ground in areas where a lot of ledge occurs. This is likely the case from Four Mile Brook Road all the way to the Richardson property in the Bald Hills region. Placing the pipe near the surface of the ground can prevent ground water and intermittent streams from flowing in their natural directions. The result can be a change in the hydrology, causing significant impacts to local natural resources. In these areas of shallow depth-to-bedrock, water will run along the pipe, creating the opportunity for more severe erosion of back-fill material. In this case, water would likely pool up in areas along the pipeline, and increase the freeze-thaw action at the surface of the pipe, increasing the chances of the pipe to rupture. Digging or blasting shallow trenches, and using the thinnest gauge metal possible (as is currently proposed by Kinder Morgan) needs to be examined in these situations to determine if these methods will contribute to additional hazards.

7. Ground water – The commission is concerned about the potential for leaks in the buried pipe that would result in contamination of ground water resources. There are a many private wells in the vicinity of the proposed pipeline route, and if the groundwater becomes contaminated, this would result in expensive water treatment requirements at best, and the inability to live in houses in these areas at worst. Again, the quality of materials and construction practices needs to be examined to determine if lesser grade materials are appropriate in this region.

8. Light/noise pollution - The commission is concerned that a compressor station such as the one being proposed for Northfield would have noise and light pollution impacts on adjacent conservation land. If Kinder-Morgan is allowed to build the compressor station as now proposed, detailed mitigation plans must be drawn up to limit and ameliorate both the amount and the effect of noise and light produced by its operation.

9. The area in which the proposed compressor station will be located has been used by local hunters for generations. Installation of this facility will impose restrictions on access to the area, thereby eliminating passive recreation as one of the important functions of our conservation lands.

# NORTHFIELD FIRE DEPT - PIPELINE ISSUES

Additional Resources required:

Access to entire pipeline for firefighting and patient evacuation purposes during construction and when the pipeline is in operation – All Wheel Drive ATV's / UTV's (side by side), Rescue sled, Off Road Rescue equipment.

Trench Rescue Training and Equipment for construction.

Meters to test for the presence of LNG.

Protective turnout gear.

Additional self contained breathing apparatus (SCBA).

Wildland firefighting equipment - all wheel drive – brush truck and brush tanker.


Questions:

How does the compressor station function?  Are the compressors / pumps electrically driven or are they powered by LNG or diesel fuel?   Is the station manned 24/7/365 or is it remotely operated?

Does the compressor station vent?  How often?  How long does it vent?  What are the hazards while venting?

How quickly will Kinder- Morgan be **on site** in response to a pipeline or station emergency?

How does K-M shut the pipeline down?  How long does it take?

Does the LNG in the pipeline have an odor or is it odorless?

Are there fire protection systems in the compressor station?  What is the fire depts. responsibility and access to the building?

How does the compressor station operate during a power failure?  Are there any special conditions?


4-8-2015

## Northfield Police Pipeline Outline

### *Construction Phase*

**Traffic:**

• Any disturbance in normal traffic patterns in the area of construction of the natural gas pipeline due to equipment or supplies accessing the pipeline route will require a detail officer.

• All roadways in the town of Northfield which are excavated for the purpose of constructing the natural gas pipeline will require detail officers.

**Security:**

• During construction officers will be utilized for keeping the peace and protection of property in the work zone area, in the event of protests disturbances.

### *Operation Phase*

Compressor Station and Pipeline security:

- The Northfield Police will require 24 hour police coverage, which will require additional full-time staffing for immediate response to emergencies which could include terrorism, criminal acts or any emergency requiring police response.

- The Northfield Police will need additional equipment to access all areas of the pipeline in the town of Northfield such as ATV's and Snow machines for the purpose of patrolling /responding/ preventing any act of vandalism/terrorism to the pipeline. (See attached equipment list)

- Additional funding to include training, attending meetings, seminars, conferences and federal security briefings.

Questions:

What on site security will the compressor station have including video and other surveillance systems?

1. Inner perimeter security?  (Alarms)

2. Outer perimeter security?  (Fence, access point gates, etc.)

**DHS Authorized Equipment List**

Grants: BZPP

| AEL Category | Title | Description |
|---|---|---|
| 03OE-02-BNOC | Binoculars/Scopes | Optical systems that permit remote observation during field operations. |
| 03OE-02-FIBR | Systems, Fiber Optic | Fiber optic systems that permit remote observation during field operations. |
| 03OE-02-LASR | Range Finder, Laser | A distance-measuring device capable of instantaneously measuring distance to target with accuracy of +/- one yard/meter. |
| 03OE-02-SCOP | Spotting Scopes/Surveillance Telescopes | Optics capable of use in long-range, sometimes long-term, observation of tactical, structural stability, or rescue operations. |
| 03OE-02-TILA | Optics, Thermal Imaging and/or Light Amplification | Thermal imaging and/or light amplification optics, including night vision equipment and Forward Looking Infrared (FLIR) for search operations involving trapped or lost victims or tactical operations. |
| 03OE-03-LTPA | Lighting, Portable Area Illumination | Portable area illumination for work areas, rescue sites, and staging areas during night operations or in areas with insufficient ambient light. |
| 03OE-04-LTHE | Light, Personal, Intrinsically Safe | Compact, hand-held lights or lights mounted on helmets or equipment, or otherwise worn by the user for use in tactical operations and in potentially flammable atmospheres. Includes high-intensity lights as well as light sticks. |
| 03OE-04-LTHH | Light, Hand-Held or Helmet-Mounted Illumination | Hand-held lights or lights mounted on helmets or otherwise worn by the user for use in non-flammable or non-explosive atmospheres. |
| 03OE-07-ROBT | Robots | Robotic platforms to support various mission areas such as explosive device remediation, hazardous materials operations, tactical law enforcement operations, search & rescue, and surveillance/detection. |
| 03SR-03-LSTN | System, Listening | Seismic and acoustic listening devices and accessories for locating trapped and entombed victims not detectable by other means. |
| 03SR-03-SCAM | Camera, Search | Void area video search camera and accessories for inspecting voids and confined spaces with limited physical access. |
| 03SR-05-RBTL | Attachments/Tools, Search & Rescue Robot or Remotely Piloted Vehicle | Attachments/tools for specialized search & rescue capability such as mountable cameras (including infrared), remote manipulators, listening devices, etc. Includes repeater devices for extended remote operations. |
| 04AP-01-CADS | System, Dispatch, Computer Aided | Computer software system(s) used to track and manage public safety incidents and resources. |
| 04AP-02-AVLS | Systems, Automatic Vehicle Locating (AVL) | Automatic Vehicle Locating (AVL) Systems |
| 04AP-02-DGPS | Device, Global Positioning System (GPS) | Global Positioning System (GPS) receiving device, including self-contained handhelds, mobile mounted systems, and accessory devices to enable computers and communications devices. |
| 04AP-02-OAPT | System, Operations Area Personnel Tracking and Accountability | Personnel tracking and accountability systems for use in an operations area, including both administrative tracking systems and precision locating and tracking systems. |
| 04AP-03-GISD | Data, Geospatial | Data related to positions on the Earth's surface in the form of databases, maps, satellite and other remote-sensing imagery. For use with Geospatial Information Systems (Item 04AP-04-GISS). |
| 04AP-03-GISS | System, Geospatial Information (GIS) | Application software as well as integrated hardware for implementation. GIS systems support the acquisition, integration and dissemination of geospatial data and imagery. |

| Code | Name | Description |
|---|---|---|
| | | - Geospatial Analysis - allows for association of intelligence and location-based information to perform complex analysis and visualization<br>- Decision Support - provides a mechanism to deliver actionable intelligence, supporting strategic and tactical operations<br>- Situational Awareness - supports a common operational picture with near real-time intelligence fused with geospatial information fully describing the area of operations in a spatial context<br>- Navigation<br>- Monitoring (tracking, weather, traffic, assets, environment, damage assessments, disease surveillance)<br>- Modeling – combines complex spatial information and applies modeling tools to predict consequences of events in support of planning, mitigation, response and recovery<br>- Mapping – presents fused information in a standard, distributable and easily recognizable format<br>- Reporting (activity, after-action, alert-warning, location, situation, coverage portrayal) |
| 04AP-04-RISK | Software, Risk Management | Software or systems that facilitate capture, quantification, and management of risk factors involved in specific tasks, environments, or programs. |
| 04AP-05-CDSS | Systems and Tools, ICS | Incident Command System (ICS) software including command/plans and decision-support tools. Also includes NIMS-compliant field incident management materials such as T-Cards and holders, specialized forms, etc. |
| 04AP-05-CRED | System, Credentialing | Software application and associated hardware and material for creating site/event credential badges and controlling scene access. |
| 04AP-05-SVIS | Software, Operational Space Visualization | Operational space visualization tools. |
| 04AP-06-CBRN | Software, CBRNE/Commercial Chemical/Hazard | CBRNE/commercial chemical/hazard software and response system that enables the tracking, identification, and/or querying of information relating to CBRNE sources. |
| 04AP-06-PMOD | Software, Plume Modeling | Plume modeling fate and transport software and/or databases capable of real-time linkage to sensors and meteorological monitoring and detection. |
| 04AP-06-TRAF | Software, Traffic Modeling | Software designed to depict traffic flow, identify congestion points, and predict impact of accidents or deliberate alterations of traffic patterns such as signal times, detours, closures, etc. |
| 04AP-07-INVN | Software, Equipment Tracking and Inventory | Application software for tracking of tangible equipment, including location and person(s)/organization(s) responsible. |
| 04AP-08-SIMS | Simulators | Systems that provide interactive audio or audio-visual simulation of operational situations to support training, planning, or decision making. |
| 04AP-09-ALRT | Systems, Public Notification and Warning | Systems used to alert the public of protective actions or to provide warning to the public in the event of an incident, such as sirens, the Emergency Alert System (EAS), and the Integrated Public Alert and Warning System (IPAWS). |
| 04HW-01-HHCD | Computing Device, Handheld | Handheld and "ultraportable" computing devices with connectivity. Includes a variety of platforms such as PDAs, Windows-compatible devices, netbooks, and pad devices. |
| 04HW-01-INHW | Hardware, Computer, Integrated | Computer hardware and operating system software designated for use in an integrated system allowable under the indicated grant programs. Such systems include detection, communication, cybersecurity, logistical support and Geospatial Information Systems. |
| 04HW-01-MOBL | Computer, Mobile Data | Mobile computer devices, usually mounted permanently in vehicle, operating from DC power supply. Used for data upload and download, as well as local data entry. |

| Code | Name | Description |
|---|---|---|
| 04HW-02-BARC | Equipment, Bar Code Reading and Printing | Bar code readers and printers, including devices that have wireless network capabilities. |
| 04HW-02-RFID | Devices, Radio Frequency Identification | Radio Frequency Identification Devices (RFID) and associated readers. |
| 04MD-01-CMRA | Camera, Still | Still camera, digital or film. |
| 04MD-01-IRED | Camera, Infrared (IR) | Infrared (IR)<br>a. Thermal<br>b. Forward Looking Infrared Radiation (FLIR), and/or<br>c. Infrared detection |
| 04MD-01-IRIL | Equipment, Illumination, IR | Infrared illumination equipment. |
| 04MD-01-LAMP | Equipment, Light Amplification | Light amplification (night vision enhancement) equipment, including hand-held, helmet mounted, or equipment-mounted tactical systems. Includes hardware/accessories necessary for helmet/equipment mounting. |
| 04MD-01-UCAM | Camera, Underwater (Still/Video) | Still or video camera adapted or designed for use underwater. |
| 04MD-01-VCAM | Camera, Video | Video camera. |
| 04MD-02-PROJ | Projector, Video | Video projector. |
| 04MD-03-DISP | Display, Video | Video display – assorted technologies including Plasma, LCD, etc. |
| 04SN-01-PTMS | Station, Portable Meteorological | Portable meteorological station that monitors (at a minimum) temperature, wind speed, wind direction, precipitation, relative humidity, and barometric pressure. |
| 04SN-01-XMIT | Transmission Device, Wireless, Remote Sensor | A device which, when attached to a remote sensor such as a video camera or chemical detector, allows wireless transmission of data to a distant base. May use radio frequency (RF) or infrared (IR) transmission. |
| 04SW-04-NETW | Software, Network | Software for networking, monitoring network performance and/or maintaining configuration. |
| 04SW-05-SCAD | System, SCADA (Supervisory Control and Data Acquisition) | A software/hardware system designed primarily to monitor and control remote sensors and actuators. Uses vary from large-scale examples such as refinery or power grid control to building HVAC systems. |
| 05AU-00-BIOM | Device, Biometric User Authentication | Devices that utilize biometric characteristics (fingerprints, palm prints, retinal scanning, etc.) to authorize access to facilities and/or systems. |
| 05AU-00-TOKN | System, Remote Authentication | System used to provide enhanced remote authentication, usually consisting of a server, some synchronization scheme, and a device or token. |
| 05EN-00-ECRP | Software, Encryption | Encryption software for protecting stored data files or email messages. |
| 05EN-00-ETRN | Encryption, Data Transmission | A class of network access solutions, usually for remote access, that provide encrypted user access. May be used for remote access, point to point, or link encryption. Includes virtual private networks, and encrypted transmission modes such as SSH and SSL. |
| 05HS-00-FRNS | Software, Forensic | Application suites that allow in-depth analysis of hosts based on operating system and file systems. |
| 05HS-00-MALW | Software, Malware Protection | Software for protection against viruses, spyware, and malicious code. May be obtained for individual hosts or for entire network segments. |
| 05HS-00-PFWL | System, Personal Firewall | Personal firewall for operation on individual workstations. Usually a software solution, but appliances are also available.<br>See also: 05NP-00-FWAL. |

| Code | Name | Description |
|---|---|---|
| 05NP-00-FWAL | Firewall, Network | Firewall (software or standalone appliance) for use in protecting networks. See also 05HS-00-PFWL. |
| 05NP-00-IDPS | System, Intrusion Detection/Prevention | Intrusion Detection and/or Prevention System (IDS, IPS) deployed at either host or network level to detect and/or prevent unauthorized or aberrant behavior on the network. Software and hardware (appliance) solutions exist. |
| 05NP-00-SCAN | Tools, Network Vulnerability Scanning | Port scanners and other tools designed to identify security vulnerabilities on networks or individual hosts on target networks. |
| 05NP-00-SEIM | System, Security Event/Incident Management | Software or appliance that gathers data from multiple security sources such as firewalls, intrusion detection systems, malware protection systems, etc. to provide log file consolidation and event correlation capability. |
| 05PM-00-PTCH | System, Patch/Configuration Management | System to manage the update and installation of patches, applications, and/or operating systems utilized by an organization in order to maintain current "version control." |
| 06CC-01-CELL | Phone, Cellular | Cellular phone |
| 06CC-02-2WAY | Device, Messaging, 2-Way Text | Text messaging device with 2-way capability. |
| 06CC-02-DSAD | Device, Data Service Access | PCMCIA card, serial device, or USB device for access to on-line data services. |
| 06CC-02-PAGE | Services/Systems, Paging | Paging services/systems, 1-way text messaging. |
| 06CC-03-SATB | Phone, Satellite Base | Satellite communication device, fixed location. |
| 06CC-03-SATM | Phone, Satellite Mobile | Satellite communication device, mobile. |
| 06CC-03-SATP | Phone, Satellite Portable | Satellite service with handheld device. |
| 06CC-04-EQSD | Equipment, Satellite Data | Satellite earth station transmitter and receiver, usually Ku-Band. Examples include, but are not limited to Iridium and INMARSAT A and B. |
| 06CC-04-SADS | Services, Satellite Data | Satellite data services (Internet access via satellite connection). Commercial providers of Internet connectivity via satellite. |
| 06CC-04-SSBR | Services, Satellite, Brokered | Full-service rental/lease of satellite transponder time, including truck and technicians. |
| 06CC-04-SSFT | Space Segment, Full-Time, Leased | Satellite transponder time purchased on long-term contracts. |
| 06CC-04-SSHB | Space Segment, Hourly, Brokered | Satellite transponder time purchased by the hour. |
| 06CC-05-PRTY | Priority Services, Communications | Services to ensure priority communication over common carrier media, such as cellular phones or telephone land lines. |
| 06CP-01-BASE | Radio, Base | Base radio system. |
| 06CP-01-HFRQ | Radio, High Frequency (HF) Single Sideband | High frequency (HF) single sideband communications equipment. |
| 06CP-01-MOBL | Radio, Mobile | Mobile radio equipment, deployed in/on vehicles, or can also be deployed as temporary base stations. |
| 06CP-01-PORT | Radio, Portable | Individual/portable radio transceivers. |
| 06CP-01-REPT | Repeaters | An electronic device that receives a weak or low-level signal and retransmits that signal to extend usable range. |
| 06CP-01-VOTR | Receivers, Voter | A device that evaluates the comparative strength and signal/noise ratio from multiple receivers on the same frequency, selects the "best" signal and retransmits. |

| Code | Name | Description |
|---|---|---|
| 06CP-02-BRDG | Equipment, Bridging/Patching/Gateway | Includes a wide range of equipment and software utilized to connect disparate communications networks. Systems range from cords that can patch two radios to interface boxes that can link dozens of radios, phones, computers, etc. in multiple sessions. |
| 06CP-03-BAMP | Amplifiers, Bi-directional | Bi-directional amplifiers, application defined. |
| 06CP-03-ICOM | Intercom | System for hands-free (wired or wireless) communication for limited numbers of personnel in close proximity, such as vehicle crew members. Includes systems designed for underwater use. |
| 06CP-03-MWAV | Radio, Microwave Link | Microwave link for remote control of radio base stations or for links between infrastructure components and other communication assets. |
| 06CP-03-NRSC | Cable, Non Radiation-Shielded Transmission | Non radiation-shielded transmission cable between base/repeater and antenna. |
| 06CP-03-PRAC | Accessories, Portable Radio | Speaker/microphone extensions to portable radios. Sometimes used within encapsulated/partially encapsulated suits, where restricted access to radio equipment impedes normal portable radio operations. |
| 06CP-03-TOWR | Systems, Antenna and Tower | Fixed and portable. |
| 06CP-04-WADN | Network, Wide Area Digital | Wide area digital network, voice/data capable. |
| 06CP-05-BRAC | Bridge, Audio Teleconferencing | Device to connect more than two parties (up to several dozen) into a single audio conference. |
| 06CP-05-LPBX | Exchange, Private Branch, Portable | Portable private branch exchange (PBX) |
| 06CP-05-VCNB | Bridge, Video Teleconferencing | Device to connect more than four parties (up to several dozen) into a single video conference. |
| 06CP-05-VCON | Teleconferencing, Video | Video teleconferencing over ISDN telephone lines or broadband facilities. |
| 06CP-06-SAFE | Safe, GSA-Rated | Safe for storing sensitive material and equipment such as encryption keys or encryption key loaders. |
| 06CP-06-SHRD | Shredder / Disintegrator | Shredding or disintegrating device for the destruction of sensitive materials such as reports or encryption key material. |
| 07ED-01-DOGS | Canines, Explosive Detecting | Explosive detecting canines, related CBRNE training, protective equipment/garments, handling and training accessories. |
| 07ED-01-IMOB | Trace Detector, Explosive, Handheld | Handheld trace explosive detectors using air-sampling, particulate sampling, or dual mode operation. Underlying technology is Ion Mobility Spectrometry (IMS), Differential Ion Mobility Spectrometry (DMS) or equivalent. |
| 07ED-03-PORT | Portal, Explosive Detecting | Ion mobility spectrometry (IMS) explosives screening equipment. Two types: walk-through and drive-through (vehicle). |
| 07ED-03-SWPE | System, Trace Explosive Detection | An explosive detection system that utilizes cloths, papers, strips or other items to wipe a surface. The sampling medium is then placed in a machine that heats the particulates and analyzes the resulting vapor to detect/identify the explosive. |
| 07RD-01-DOSP | Dosimeter, Personal | Personal dosimeter, including film, Thermoluminescence Dosimetry (TLD), and Optical Stimulated Luminescence (OSL). |
| 07RD-01-DOSS | Dosimeter, Self-Reading | Self-reading dosimeter (SRD) or pocket ionization chambers (PIC). |
| 07RD-01-EPD | Dosimeter, Personal, Electronic | Electronic personal dosimeter (EPD). |
| 07RD-01-PDGA | Detector, Radiation, Alarming, Personal (Gamma and Neutron) | Personal radiation (gamma and neutron) detection device which provides an alarm based on detection, but does not quantify dose-rate. |

| Code | Name | Description |
|---|---|---|
| 07RD-04-SGND | Detector, Gamma/Neutron, Standoff | Detect gamma/neutron radiation at a stand-off distance of at least 50 feet and specify the type and location of radiation sources, while maintaining sufficient energy resolution and sensitivity to discriminate . |
| 07SE-01-IHTS | Sensor, Heat, Infrared | Heat sensing device. |
| 07SE-01-LEAK | Detectors, Leak | Leak detectors (e.g., soap solution, ammonium hydroxide, ultrasonic, etc.). Replaces 07CS-01-LEAK. |
| 07SE-01-THMS | Thermometer, Surface | Surface thermometer. |
| 07SE-03-ENVS | Equipment, Environmental (Weather) Surveillance | Environmental (weather) surveillance equipment to support CBRNE detectors. |
| 07ZZ-00-NCBR | Equipment, Specialized Hazard Detection, non-CBRNE | This category includes specialized equipment not included elsewhere in Section 7 that is intended for all-hazards detection missions, and that is limited to (or focuses primarily on) non-CBRNE related events (e.g., seismographs). |
| 10BC-00-BATT | Batteries, All Types, Sizes | Batteries for all recommended equipment. Types including, but not limited to Alkaline, Nickel-Cadmium (Ni-CAD), Nickel Metal Hydride (NiMH), Lithium (Li-Ion). Form factors such as AA, AAA, C and D cells, 9-Volt, Clamshell. |
| 10BC-00-FCEL | Cells, Fuel | Fuel Cells. |
| 10BC-00-SOLR | Chargers | Including but not limited to solar, natural gas, shore power, etc. |
| 10GE-00-GENR | Generators | Generators, varying types and sizes, including gasoline, diesel, propane, natural gas, alternator, gas turbine powered devices, etc. |
| 10PE-00-BCON | Conditioners, Battery | Battery conditioners. |
| 10PE-00-INVT | Inverters | Equipment for DC to AC conversion. |
| 10PE-00-PCDS | System, Power Conditioning | Systems that provide protection against power spikes, surges, and momentary drops so that serviced equipment receives "clean" power. |
| 10PE-00-PTSW | Switch, Power Transfer | Switch for power output transfer to support generator maintenance and fueling. |
| 10PE-00-RECT | Rectifiers | Equipment for AC to DC conversion. |
| 10PE-00-REEL | Reels, Electric Cord | Electric cord reels. |
| 10PE-00-UPS | Supply, Uninterruptible Power (UPS) | Systems that compensate for loss of power to serviced equipment for some period of time. May include short-duration battery devices, or standby generator devices for longer duration. |
| 13IT-00-ALRT | System, Alert/Notification | Alert and notification equipment that allows for real-time dissemination of information and intelligence among responders via equipment such as cellular phones, pagers, text messaging, etc. |
| 13IT-00-DACQ | Data Acquisition | Software for data collection and information / intelligence gathering, including data mining and search tools that support inferential analysis, including trend analysis. |
| 13IT-00-DFSN | Data Fusion/Synthesis | Software, system or suite for accepting disparate inputs and producing organized information. |
| 13IT-00-FACE | Software, Facial Recognition | Facial recognition software for access control, identification of criminal actors (IFF), etc. |
| 13IT-00-FEES | Fees, Usage, for databases containing terrorist threat information | One-time or recurring fees for the use of commercial databases containing terrorist threat information. |
| 13IT-00-INTL | Systems, Intelligence Sharing | Implementation of and connectivity to network-based systems to enhance intelligence and information sharing capabilities. |

| Code | Name | Description |
|---|---|---|
| 13IT-00-SGNT | Software, Investigative, Signals Intelligence | Investigative software for collating and analyzing data from signals intelligence such as Pen Registers and wiretap management tools. |
| 13LE-00-SURV | Equipment, Law Enforcement Surveillance | Surveillance equipment and related accessories, including but not limited to: audio, data, and visual equipment. Includes electronic equipment such as Pen registers. |
| 14CI-00-COOP | System, Information Technology Contingency Operations | Back-up computer hardware, operating systems, data storage, and application software necessary to provide a working environment for contingency operations. May be a purchased remote service or a dedicated alternate operating site. |
| 14EX-00-BCAN | Receptacles, Trash, Blast-Resistant | Explosive-resistant trash receptacles. |
| 14EX-00-BSIR | Systems, Building, Blast/Shock/Impact Resistant | Systems to mitigate damage from blasts, shocks, or impacts, such as column and surface wraps, breakage/shatter resistant glass, window wraps, and deflection shields. |
| 14SW-01-ALRM | Systems/Sensors, Alarm | Systems and standalone sensors designed to detect access violations or intrusions using sensors such as door/window switches, motion sensors, acoustic sensors, seismic, and thermal sensors. May also include temperature sensors for critical areas. |
| 14SW-01-ASTN | Network, Acoustic Sensor Triangulation | A network consisting of deployed acoustic sensors and processing nodes for data integration and analysis. |
| 14SW-01-DOOR | Doors and Gates, Impact Resistant | Reinforced doors and gates with increased resistance to external impact for increased physical security. |
| 14SW-01-EXTM | System, Fire Extinguisher Monitoring | System for monitoring the presence and inflation pressure of fixed-location fire extinguishers to ensure that they are usable and are not stolen for possible misuse. |
| 14SW-01-LITE | Lighting, Area, Fixed | Fixed high-intensity lighting systems for improved visibility in areas such as building perimeters and surveillance zones. |
| 14SW-01-LRHW | Long Range Hailing and Warning Device | Long range hailing and warning device capable of producing highly directional sound beams, allowing users to project warning tones and intelligible voice commands at great distances. |
| 14SW-01-PACS | System, Physical Access Control | Locking devices and entry systems for control of physical access to facilities. |
| 14SW-01-SIDP | Systems, Personnel Identification | Systems for positive identification of personnel as a prerequisite for entering restricted areas or accessing information systems. |
| 14SW-01-SIDV | Systems, Vehicle Identification | Systems for identification of vehicles, ranging from decals to radio frequency identification (RFID) or other transponder devices. |
| 14SW-01-SNSR | Sensors/Alarms, System and Infrastructure Monitoring, Standalone | Standalone sensors/alarms for use on critical systems or infrastructure items (security systems, power supplies, etc.) to provide warning when these systems fail or are near failure. |
| 14SW-01-VIDA | Systems, Video Assessment, Security | Camera-based security systems utilizing standard, low light, or infrared technology. |
| 14SW-01-WALL | Barriers: Fences; Jersey Walls | Obstacles designed to channel or halt pedestrian or vehicle-borne traffic in order to protect a physical asset or facility. |
| 14SW-02-HSCN | Equipment, Hull Scanning | Devices or systems used to scan ship hulls for attached devices. |
| 14SW-02-RADR | Systems, Radar | Scanning systems for detection of objects such as vessels, personnel, and other objects. |
| 15IN-00-PLSN | System, Pulsed Neutron Activation, Non-Invasive | Screening system utilizing pulsed neutrons. Non-destructive detection of CWAs in sealed containers. |

| Code | Name | Description |
|---|---|---|
| 15IN-00-RADR | Radar, Ground/Wall Penetrating | Radar systems designed to penetrate walls or ground to allow detection of hidden objects. |
| 15IN-00-XRAY | System, Mobile Search & Inspection; X-Ray | Portable X-Ray systems for use in search and screening operations. |
| 15SC-00-PMON | Monitors, Portal | Systems to scan vehicles/cargo for radioactive content. Various sizes for vehicles, packages (large and small) and pedestrians. Does not identify radionuclide. |
| 15SC-00-PPSS | Systems, Personnel/Package Screening | Fixed systems such as walk-through magnetometers and conveyor-belt x-ray systems used to screen personnel and packages for hazardous materials/devices. |
| 20FP-00-AFIS | Equipment, Fingerprint Processing and Identification | Equipment for fingerprint processing, including Automated Fingerprint Identification System (AFIS) interface equipment. |
| 21GN-00-INST | Installation | Installation costs for authorized equipment purchased through FEMA grants. |
| 21GN-00-MAIN | Maintenance | Vehicle and equipment maintenance packages. |
| 21GN-00-SHIP | Shipping | Shipping costs for equipment purchased with grant funding. |
| 21GN-00-STAX | Sales Tax | Sales tax on equipment purchased with grant funding. |
| 21GN-00-TRNG | Training | Training on CBRNE and cyber security equipment by vendors or local entities. |