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DRAFT DICCE SOW

Design, Integration, Construction, Communication, and Engineering (DICCE) Services for the National Nuclear Security Administration (NNSA) Second Line of Defense (SLD) Program

The National Nuclear Security Administration

Service Center

Date TBD

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TBD

1.0 OBJECTIVE

1.1 The objective of this procurement is to install sustainable radiation detection equipment and associated communication systems and to provide handheld equipment at selected international land border crossings, airports, and seaports in cooperation with international partners around the world.

1.2 The focus is on the integration activities that are needed for the development and deployment of:

a. standardized and universal designs to the maximum extent possible;

b. designs that are cost effective, easily installed, and have a high system availability; and

c. designs that do not disrupt commerce and movement of people or cargo across borders and through seaports that are easy to use, configure, and maintain.

2.0 SCOPE OF WORK

The scope includes design, integration, engineering, construction, and communication system hardware and software services to secure up to 50 seaports (estimated) under the SLD Megaports Program and approximately 200 other border locations (land crossings, airports and feeder seaports) under the SLD Core Program, in approximately 30 foreign countries in the next five years. As the work progresses, it is estimated that the Contractor will have sites in as many as 10 countries working simultaneously. The countries under consideration by the SLD Program include countries in the Former Soviet Union, Europe, Asia, Southeast Asia, Central and South America and other regions to be determined.

3.0 BACKGROUND

The National Nuclear Security Administration (NNSA) Office of International Material Protection and Cooperation (IMPC) is responsible for enhancing the security of vulnerable stockpiles of nuclear weapons and weapons-usable nuclear material in countries of concern and for improving the ability to detect the illicit trafficking of those materials.

The IMPC addresses the ability to detect illicit trafficking of special nuclear and other radiological materials through the Second Line of Defense (SLD) Program by focusing on eliminating the pathways for nuclear smuggling through strategic and high-risk land border crossings, airports, and seaports. The SLD Program is currently accomplished through cooperative efforts with partner countries around the world, to detect and deter illicit trafficking in special nuclear and other radiological materials across international borders.

The SLD Program identifies strategic and high-risk land border crossings, airports, and seaports and coordinates with host governments to install and operate systems for the detection of special

nuclear and other radiological materials that may be smuggled through them. The SLD Program initially focused on Russian border crossings. However, the program has expanded to border crossings in other former Soviet states, other partner countries, and in numerous international seaports throughout the world. Provision of these systems will enhance the capabilities of host countries to detect, deter and interdict illicit trafficking of nuclear and other radiological materials across international borders and reduce the risk of nuclear proliferation and terrorism.

Under the SLD Program, IMPC cooperates with foreign governments to identify and prioritize potential sites. SLD surveys selected sites, assesses threats and vulnerabilities, and determines and installs the necessary upgrades to provide effective detection and deterrent capability. In addition to installing modern radiation detection systems, SLD works with host governments to implement effective operational procedures and develop and provide training to partner country personnel. To maintain the detection systems over the long term, the systems are integrated into existing infrastructure, and use indigenous labor, parts, and materials when possible.

The SLD site communication systems provide a tool to the local operator to assess alarm data, record actions taken, and archive and report information received from the portal monitors. These systems consist of hardware and software necessary to report alarm data to the operator along with camera images of the person, vehicle, container, or rail car causing the alarm. The systems also provide operators with state of health information on the system. Historical data gathered from these systems assist the program in optimizing portal monitor performance and provide SLD and host government officials assurance that the system is being used as intended. Site communication systems are developed from a “Standard Design” but must be configurable and expandable to meet site-specific requirements.

The SLD program office is currently organized into two distinct program elements. The **Megaports Initiative** focuses on securing global containerized cargo trade by installing radiation detection systems in strategic international container seaports of interest to the U.S. Because of the focus of the Megaports Initiative, the Program works closely with the US Customs and Border Protection’s (CBP) Container Security Initiative. The **Core Program** mission is broader in scope in terms of border crossings and objectives and equips land border crossings, seaports and airports with SLD radiation detection systems.

The primary work envisioned under this SOW includes the site design and installation of the portal monitoring equipment and associated communication equipment as described below. The DICCE contractor will be responsible for integrating this key on-the-ground effort which may involve local subcontractors. The SLD program will integrate the work carried out under this SOW into the larger program effort which also involves the contributions of national laboratories and other contractors who are responsible for specialized tasks.

4.0 TECHNICAL REQUIREMENTS/TASKS

The services sought by the SLD program office shall be specified on a task order basis and issued by that office. A task for in-country services may incorporate multiple sites within that country.

The Contractor shall perform the following tasks:

- Design Engineering
- Construction Management
- Communications Systems
- Engineering Services
- Project Management and Integration
- Logistics Services
- Acceptance Testing and Operational Test & Evaluation
- As-Built Documentation and Deliverables
- Maintenance and Lifecycle Services, and
- Quality Assurance

The latest versions of the following program documents are incorporated by reference:

- The SLD Implementation Strategy
- The Configuration Management Guidelines
- Megaports System Level Acceptance Test (SLAT)
- The Core Acceptance Test Plan
- The SLD Strategic Plan
- SLD Sustainability Guidelines

4.1 DESIGN ENGINEERING

4.1.1 Standard Designs

As defined in specific task orders, the Contractor shall develop, modify, and maintain a standard set of SLD system designs. RPM designs are not required. A set of existing standard designs will be provided to the Contractor. The Contractor shall use the existing set of standard designs to the extent practicable for their proposed installations and then maintain the entire SLD design package. For each installation, a complete set of as-built design drawings will be required including those standard designs incorporated and annotated.

4.1.1.1 The construction standard designs shall include design requirements to install the following:

a. Fixed and re-locatable RPM systems
b. Central Alarm Station (CAS) and Local Alarm Station (LAS) buildings
c. Power and utility panel systems
d. Camera systems
e. Un-interruptible power supply systems
f. Heating, ventilation, and air conditioning systems (HVAC)

The construction standard designs shall include design requirements for the following:

a. Excavation and trenching
b. Foundations and footings
c. Grading and paving
d. Electrical, power, and fiber optic
e. HVAC

4.1.1.2 The communication system standard designs shall include:

a. Networking equipment, including fiber optic routers and switches
b. Computer servers and workstations
c. Computer software and operating systems
d. Computer databases
e. Un-interruptible power supply systems
f. Virtual private networks
g. Wireless communication systems (radio frequency)
h. Satellite and Very Small Aperture Terminal (VSAT) systems
i. OCR equipment and software
j. Camera systems (video, digital, etc.)

4.1.1.3 All designs shall meet the design requirements listed in the SLD Design Requirements Documents that will be provided by SLD.

4.1.1.4 As defined in Section 4.6.3 of this Statement of Work (SOW), Radiation Portal Monitors shall be supplied as government furnished property (GFP) unless otherwise specified.

4.1.1.5 The Contractor shall ensure the standard system designs, if modified, satisfy equipment installation and operating requirements for GFP and contractor acquired property, such as camera systems, communication hardware and installation hardware.

4.1.1.6 The Contractor shall ensure there is requirements traceability between all the SLD design specifications, design documents, and acceptance testing documents/procedures.

4.1.2 Site-Specific Design Engineering

The following is general work scope of requirements, which the Contractor shall provide and which shall be refined in individual task orders.

4.1.2.1 Customized Engineering Designs

Provide engineering services to customize SLD standard designs developed in Section 4.1.1, or develop new stand-alone designs,

based upon Country-specific design requirements and system needs. Engineering services include architectural, communication, and civil construction required to develop new system features and functionality. As specified by task order, the Contractor shall use host country design firms to do the detailed design and provide a design management and oversight function on these projects.

Provide engineering and consulting services to review, comment on, refine and/or modify designs provided by third parties, primarily host country firms.

Develop designs (using host-country design firms where appropriate) that use host country building codes and standards over U.S. standards for construction designs, except where personnel safety or system performance are jeopardized or impacted, and include the use local Architect/Engineer (A/E) design firms when cost effective.

The new or customized engineering site designs shall include information such as new or updated technical solutions, drawings, specifications, procedures, and studies that are necessary to procure, manufacture, construct, and install the SLD system.

4.1.3 Design Reviews and Surveys

4.1.3.1 The Contractor shall participate in site surveys, engineering surveys, conceptual design reviews, preliminary design reviews, and construction readiness reviews as defined in the country or site task order.

4.1.3.1.1 The Contractor shall support other engineering meetings, and design and readiness reviews as specified in task orders.

4.1.3.1.2 The Contractor shall prepare meeting minutes and action item lists to document the results of the meetings. The Contractor shall track all action items to closure.

4.1.4 Government Furnished Documentation and Technical Data

The Contractor shall have **full** access to engineering data and other technical information developed under the existing and previous SLD federal contracts.

4.1.4.1 The Contractor shall have full use of existing standard design documentation, which includes drawings (civil, electrical, mechanical, and structural), logic drawings, installation procedures, etc. Commercial use unrelated to the SLD program is prohibited. Contractors requesting or receiving access to this information must sign non-disclosure agreements prior to access.

4.1.4.2 The Contractor shall have full use of existing SLD communication software. Commercial use unrelated to the SLD program is prohibited. Contractors requesting or receiving access to this information must sign non-disclosure agreements prior to access.

4.2 CONSTRUCTION MANAGEMENT

4.2.1 SLD System Installation Construction

4.2.1.1 The Contractor shall provide construction services to develop, procure, construct, install, and implement the designs developed in 4.1. The Contractor shall subcontract to host country firms to the greatest extent practicable.

4.2.1.2 Construction services may include, new or modified: facility construction, radiation detection system installation, communication system installation, landscaping, asbestos and lead abatement, utility system upgrades such as water (potable and fire), telephone/computer systems (other communications), and emergency power. The Contracting Officer's Representative (COR) shall be notified whenever asbestos and lead abatement construction services are encountered or required.

4.2.1.3 Facility construction may include, new or modified: mechanical and electrical systems, exterior and interior systems, heating and air conditioning, and other systems to provide for a functional, operating building/facility.

4.2.1.4 Construction services also include the demolition of old equipment and facilities, and removal of debris and unwanted materials.

4.2.1.5 As required, the Contractor shall initiate and manage in-country subcontracts with local construction firms. The Contractor shall ensure that quality assurance, safety, and design requirements are met by in-country subcontractors.

4.2.1.6 As defined in Section 4.6.3 of this SOW, radiation portal monitors shall be supplied as government furnished property unless otherwise specified.

4.2.1.7 Depending on the needs of a specific site, the Contractor may be asked to prepare a Construction Management Plan (CMP) for a selected site project. The CMP shall consist of detailed construction, installation and integration activities required to implement the designs created in section 4.1. The content of this CMP will be specified in the site specific task order.

4.2.1.8 The purchase of program related equipment and spares, and acquisition of specialty technology services, may be required as authorized by the task order terms and conditions.

4.2.1.9 The Contractor is required to obtain all in-country permits and local inspections.

4.2.1.10 Construction activities generally take place OCONUS. There may be specific requirements, however, for installation of prototype and custom systems at CONUS SLD test, maintenance and repair facilities, and training centers as described in 4.2.2 below.

4.2.1.11 The NNSA COR or other NNSA Contracting Officer designee(s) will perform final inspection and acceptance of all construction activities.

4.2.2 Domestic Construction for Test, Maintenance and Repair Facilities, and Training Centers

4.2.2.1 Upgrades to existing and/or new CONUS SLD test, maintenance and repair facilities, and training centers shall be required on a case by case basis, at locations to be determined, to evaluate off-the-shelf radiation detection designs and communication systems.

4.2.2.2 The Contractor may provide construction services to implement the A/E designs developed in paragraph 4.1 for CONUS SLD test and training centers.

4.2.2.3 Construction services may include new or modified: facility construction, detection system installation, communication system installation, landscaping, asbestos and lead abatement, utility system upgrades such as water (potable and fire), telephone/computer systems (other communications), and emergency power. The COR shall be notified whenever asbestos and lead abatement construction services are encountered or required.

4.2.2.4 Facility construction may include, new or modified: mechanical and electrical systems, exterior and interior systems, heating and air conditioning, and other systems to provide for a functional, operating building/facility.

4.3 COMMUNICATIONS SYSTEMS

The Contractor shall provide communications software and hardware that supports the radiation detection system concept of operations (CONOPS), or other relevant documentation. The program uses both standard and custom CONOPS as appropriate to the location. To the extent practicable, the Contractor shall use existing SLD designs, software, and other resources.

The communication systems may be required to interface with other systems already operating in a port or country. System displays are often translated into host government language. Specific requirements for communications functionality will be defined in task orders. Basic Communications System functionality includes:

- Easy to use graphical user interfaces (GUI)
- Site overviews and state of health information (communications and RPMs)
- Unique visible and audible indications of the various alarm events
    - Gamma alarms
    - Neutron alarms
    - Fault alarms
    - Tamper alarms
    - Camera status
    - State of Health data
    - Power failure
- Association of alarm data and camera images to allow operators to identify the vehicle, container, person, or rail car triggering the alarm
- Graphic display of the alarm data with camera image
- Interface to allow operator acknowledgement of alarm
- Interface to allow operator entry of disposition of alarm

  - May require input of data from handheld devises
  - May require operator open text entry
- Archival of portal data (all occupancies) and camera images (alarms)
- Configurable reporting of system status, alarm data, or occupancy data
- Virtual Private Network (VPN) accessible for uploading software patches from CONUS
- Capability to be networked to off-site locations

The contractor shall perform on-site training services on a case-by-case basis and at identified levels of involvement.

Note: A more detailed description of requirements will be provided with the RFP.

4.3.1 System Architecture

The SLD architecture is made up of several system elements. The Contractor shall assist in the development of intra-site (non-satellite communications systems) requirements, site to regional requirements, and standard engineering designs for communications options. Not all ports or countries will require each of these elements. Task orders will identify the system element requirements of the specific port or country. These elements include:

- Local Alarm Station (LAS): The LAS collects and displays data received from local radiation monitoring locations. A LAS is generally located at a secondary monitoring location. The data includes radiation monitor data, video, and user data entries. The LAS operator may initiate an alarm response based on alarms from the radiation detection system information.

- Central Alarm Station (CAS): The CAS collects, stores, processes, displays and forwards data at radiation monitoring locations. This data includes radiation monitor data, video, user data entries, and related systems radiation detector data. The CAS includes the intra-site communications between computing system(s) and the detection devices. The CAS operator initiates an alarm response based on alarms from the system information.

- Mother CAS: The Mother CAS is a central alarm station that integrates multiple CASs within a larger more complex site such as an airport or seaport.

- Regional Center: Regional Centers are centers that integrate multiple CAS within a region of a country. Not all countries will have Regional Centers.

- National Center: National Centers integrate all of a host country's national radiation monitoring infrastructure. Not all countries will have National Centers.

4.4 ENGINEERING SERVICES

The Contractor shall perform specialized engineering services required for design and construction activities at SLD portal sites, and in support of SLD mission requirements. These services may include:

- Assessments, feasibility studies, and or market surveys of state of the art radiation detector and communication equipment
- Studies to improve communication system designs and minimize cost and schedule
- Reliability, performance, and life cycle assessments of SLD equipment
- Test and evaluation support of new or existing equipment designs

4.5 PROJECT MANAGEMENT AND INTEGRATION

4.5.1 Project Management Support and Coordination

4.5.1.1 Project Management Support Services

4.5.1.1.1 The Contractor shall participate in, and support program planning meetings with NNSA SLD Program Office officials and the COR. The Contractor shall attend phone and tele-video conferences, respond to NNSA SLD Program Office officials and COR questions, maintain action item logs and prepare meeting agendas and minutes.

4.5.1.1.2 At the direction of the COR and/or Country Manager, the Contractor shall coordinate with host country Government Officials and Contractors to provide technical and programmatic support, including preparing presentations to facilitate government to government agreements, status design and construction activities, facilitate Value Added Tax negotiations, etc.

4.5.1.2 Project Management Plan

The Contractor shall prepare for approval by the SLD program office a Project Management Plan (PMP) to define their approach for managing work under this contract. The Contractor shall develop procedures for implementation of the PMP. The specific requirements for the PMP shall be defined in a Project Management task order, but shall include, at least, the following subject matter:

a. Program organization of work/tasks via a work breakdown structure
b. Staffing and resource requirements
c. Organizational roles and responsibilities
d. Management of US subcontractors
e. Management of foreign subcontractors
f. Quality assurance

g. Configuration management (of standard designs and Country specific designs)
h. Engineering and Contract change control
i. Material management
j. Project controls and reporting for budget, accounting, and schedule
k. Export control licensing
l. Website structure and functionality
m. Management and reporting of cash flow/financing requirements
n. Invoicing
o. Approach to recouping value added taxes (VAT)
p. Risk management
q. Training
r. Maintenance
s. Security
t. Environmental, health, and safety
u. Hazard, hardship, and incentive fees

4.5.1.3 Program Integration

4.5.1.3.1 The Contractor shall coordinate simultaneous design, construction, and integration activities within multiple countries, and at multiple site locations.

4.5.1.3.2 The Contractor shall designate a single point of contact for each country or task order to address all in-country operations.

4.5.1.3.3 The Contractor shall abide by the government-to-government agreements, including ensuring non-disclosure of Host country sensitive information.

4.5.1.4 Program Websites and Information Technology

4.5.1.4.1 The Contractor shall develop and manage websites as defined in individual task orders to facilitate management of the SLD work activities. This shall be a password protected system that shall maintain program documents and store deliverables, e.g., drawings, reports, logs, etc.

4.5.1.4.2 In accordance with the Project Management task order, the Contractor shall develop a Website Development Plan (WDP) which shall identify website content, architecture, functionality, access, and secured transmission procedures.

4.5.1.4.3 The SLD program requires website capabilities to track contract deliverables and other Program functions and information that will be

further defined after contract award. The requirements for these program elements shall be further defined in the Project Management task order.

4.5.1.4.4 SLD country information may be considered Confidential/Foreign Government Information – Modified Handling (C/FGI-MOD), and classified as "official use only" (OUO). Transmission of OUO information requires encryption logic and software that will be provided by the Government.

4.5.1.5 Configuration Management

4.5.1.5.1 The Contractor shall implement the Contractor's Configuration Management (CM) Plan that has been approved by SLD. Changes to the Contractor's CM plan shall be submitted to the Contracting Officer's Representative for approval.

4.5.1.5.2 The Contractor's CM system shall allow the preparation of specific or revised configuration management procedures for all phases of SLD lifecycle, including design, construction, installation, acceptance, and maintenance.

4.5.1.5.3 The Contractor shall implement a change control procedure. The change control procedure encompasses changes to all phases of the SLD lifecycle, including design, construction, installation, acceptance, and maintenance, in accordance with its CM Plan.

4.5.1.5.4 As specified by task order, the Contractor shall conduct and Co-chair a change control board (CCB). The CCB shall meet on a periodic basis, and shall be chaired by a representative from the SLD Program Office. The Contractor shall assign a CCB administrator to schedule CCB meetings, prepare agendas and meeting minutes, maintain change request logs, facilitate the technical review of changes, and prepare CCB reports.

4.6 LOGISTICS SERVICES

4.6.1 Import/Export Control Licenses

4.6.1.1 The Contractor shall follow the United States Customs procedures to obtain export licenses for all equipment purchased or manufactured in the United States and shipped to SLD Countries.

4.6.2 Shipping, Packaging, and Storage in Foreign Country

As specified by task order, the Contractor shall ship equipment and material to SLD Countries. Once in country, the Contractor is responsible for the safe storage, transportation, and security of all GFP and Contractor

purchased equipment. This responsibility will remain with the Contractor until the entire system is accepted by the U.S. Government.

4.6.3 Management of Government Furnished Property, Radiation Portal Monitors

4.6.3.1 The current NNSA inventory of GFP RPMs is being managed by a separate contractor. In accordance with paragraph 4.6.2 the Contractor shall interface with the RPM contractor to ship any equipment specified as GFP in a site installation task order.

4.6.3.2 The contractor may be directed to coordinate and collaborate with GFP contractors, as needed, to satisfy specific design requirements.

4.6.3 Purchase of new Radiation Portal Monitors and other SLD Equipment

The Contractor may be required to purchase equipment, as directed by task order. SLD will provide the specifications for the procurement. This equipment may include portal monitors, handheld survey meters, radiological isotope identifiers (RIIDs), radiation pagers, and other equipment.

4.6.4 Translation and Interpreter Services

4.6.4.1 The Contractor shall provide translators and/or interpreters (Russian, Chinese, etc.) to translate letters and faxes, meeting and training materials, and other miscellaneous items required for the SLD program and provide interpreters for assistance in conducting meetings with host country representatives.

4.6.4.2 As specified in Country-specific task orders, the Contractor shall provide the communication system user interface in local native language. Training materials, maintenance procedures, and other documents may be required in native language.

4.6.5 In-Country Logistics

The Contractor shall provide in-country pre-planning consultation services to facilitate the establishment of government-to-government agreements and other required authorizations as requested by the COR. The Contractor shall provide briefing materials of past projects or current plans, and other information necessary to facilitate agreements, as requested by the COR. The Contractor shall provide other logistics support, such as procurement of in-country transportation services, in-country meeting facilities, supplies, and other services necessary to

support in-country team meetings site visits, acceptance testing and other activities.

4.7 ACCEPTANCE TESTING AND OPERATIONAL TEST & EVALUATION (OT&E)

The Contractor shall support acceptance testing and OT&E as defined in the Megaports System Level Acceptance Test (SLAT) document, Core Program Acceptance Test Plan, and task order requirements. Operational Testing and Evaluation periods consist of observing system operations, fine-tuning systems operability and training of operator personnel. The Contractor shall support OT&E periods by providing technical and logistical support as required in the task order.

4.7.1 The Contractor shall provide Test Plans and/or reports identified in the Megaports and Core documents as applicable. Other requirements or modifications to testing and test reports will be identified in the task order.

4.7.2 CONUS Communication Software Demonstration Test

4.7.2.1 As defined in the Country specific task order, the Contractor shall perform CONUS demonstration tests prior to deploying final software configurations to the field.

4.7.2.2 The demonstration test shall be witnessed by the COR or the country manager.

4.7.2.3 The Contractor shall repair all system problems and anomalies detected during the CONUS demonstration test prior to deploying the software to the field for installation and in-country testing.

4.7.2.4 The Contractor shall prepare a test report documenting the findings from the CONUS demonstration testing as required.

4.7.2.5 As defined in the Country specific task order, the Contractor shall conduct a Software Readiness Review to verify the software is ready for in-country installation.

4.7.3 In-Country System Acceptance Test

The Contractor shall not commence acceptance testing unless the COR, Country Manager, or designated representative is present. If test failures occur during acceptance testing, the SLD system shall not be accepted until the failures are repaired. The Contractor shall maintain a log of all failures during the acceptance testing process.

4.8 AS-BUILT DOCUMENTATION AND DELIVERABLES

For each country the Contractor shall prepare a complete set of country A/E drawings, equipment user manuals, as-built listings, equipment operating and maintenance procedures, photos of installed equipment, acceptance test plans and test reports, communication system designs, software versions, equipment inventories and other needed documentation after acceptance testing has been completed. As specified by task order, the documents for the host country shall be prepared in the language of the host country.

4.9 MAINTENANCE AND LIFECYCLE SERVICES

4.9.1 Maintenance and Repair Services During Construction and Installation

As defined in each task order, the Contractor shall provide on-site maintenance, repair, calibration, replacement, and refurbishment of SLD equipment and systems until systems are accepted and OT&E is complete. Maintenance services include regularly scheduled activities to ensure equipment components are properly connected and are in good working order. Maintenance shall be provided by competent local technicians whenever possible. All maintenance shall be performed in accordance with manufacturer maintenance manuals and procedures. Repair and replacement of failed, damaged, lost, or stolen parts or components is required. Warranty provisions of Contractor-supplied equipment shall be enforced by the Contractor.

4.9.2 Post Acceptance Maintenance Services

Long term maintenance of the installed systems is not expected to be routinely tasked under this contract. However, circumstances may arise under which extending the pre-acceptance maintenance service is in the best interest of the government. Such requirements and the period of performance of long-term maintenance services will be defined in the individual task orders. Activities for long-term maintenance and repair will include routine maintenance and urgent repair. A long-term warranty replacement and parts refurbishment program shall generally be the responsibility of others, however, the Contractor will be required to enforce all warranty terms under their control. Long term maintenance shall be provided by competent local technicians.

4.9.3 Help Desk Support

4.9.3.1 As defined by task order, the Contractor shall provide a customer service help desk to respond to problems in deployed SLD systems. The help desk shall be able to respond to all system problems, including problems occurring with GFP.

4.9.3.2 The help desk shall maintain a tracking system of all problems reported, and ensure there is closure or recommended corrective action provided within 48 hours of problem notification to the Country requesting assistance. The problems shall be ranked and categorized based upon significance and effect on system performance. Problems that prevent the systems from operating in accordance with the SLD system specification shall be given top priority.

4.9.4 Spare Parts

The Contractor may be requested to provide and/or maintain minimal quantities of spare parts for radiation portal monitors, communications systems and handheld devises. Specific parts and quantities will be determined by the SLD Program office and authorized through task order(s).

4.10 QUALITY ASSURANCE (QA)

4.10.1 The Contractor shall complete their QA plan for this program. The outline of this plan and a list of procedures related to the plan must first be approved by the SLD program office. Any changes to this plan affecting Contractor performance of SLD activities must be approved in advance by the COR.

4.10.2 The Contractor's QA plan shall address all phases of the SLD lifecycle, including design, construction, installation, acceptance and maintenance.

4.11 FOREIGN TRAVEL

Foreign travel under this contract shall be conducted in accordance with DOE Order 551.1B, Official Foreign Travel, Attachment 2, Contractor Requirements Document, as referenced herein.

5.0 DELIVERABLES

The Contractor shall deliver reports as specified in the Reporting Requirements Checklist. Other deliverables related to specific task order construction and design activities are also required.