

Provision of Satellite Communication System for Ukraine	 IAEA International Atomic Energy Agency	IAEA Specification Dated 2022-09-02
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STATEMENT OF WORK

Provision of Satellite Communication System for Ukraine

1. Scope

This Statement of Work (SOW) describes the requirements for the Provision of a Satellite Communication System, hereinafter referred to as the “System”, for Ukraine. The System will be used for delivering internet access at the South Ukraine Nuclear Power Plant (SUNPP) at Yuzhnoukrains, Mykolaiv Oblast in order to support daily administrative Business as Usual (BAU) activities and to ensure compliance with regulations covering both safety and security of nuclear and radioactive material on site, support off site Emergency Preparedness and Response (EP&R) utility, and maintain communications with Energoatom corporate centre and all other major stakeholders nationally and internationally.

The System is one of the equipment requested by Ukraine under the IAEA Technical Support and Assistance Plan with responsibilities for ensuring continued nuclear safety and security including emergency preparedness and response in relation to existing nuclear facilities and use of radioactive sources. The IAEA technical support and assistance for safety and security are focused on four areas: remote assistance, delivery of equipment, in-person assistance, and rapid deployment assistance. The provision of the System will be coordinated by the IAEA and delivered to Ukraine under the coordination of the Response and Assistance Network mechanism as well as other available mechanisms in the IAEA.

2. Definitions, Acronyms, and Abbreviations

The following definitions, acronyms, and abbreviations shall apply throughout this SOW unless defined otherwise hereinafter:

- IAEA - International Atomic Energy Agency
- IP54 - Protection grade according to International Protection code. IP54 means dust, humidity protection
- SUNPP – South Ukraine Nuclear Power Plant
- POC - Point of Contact
- SoW - Statement of Work

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3. Requirements

The Contractor shall carry out the activities listed here below and provide the deliverables specified.

SERVICE A1:

3.1. Provide five (5) Satellite Internet Network connections at South Ukraine Nuclear Power Plant (SUNPP) at Yuzhnoukrainsk, Mykolaiv Oblast. The connections shall include, but not limited to, the following Equipment:

- Five (5) Satellite Antennas and power supplies to connect to Satellite Network System. The Satellite Antennas shall have a minimum IP rate of 54 to work outside;
- Necessary equipment to mount the Antennas on a roof (i.e. Lawn Mounting Kit and Pipe Adapter);
- A cable to connect each router and electrical power to the satellite antennas. The cables provided shall have minimum length of 30 meters;
- One (1) Wi-Fi router to be coupled with each satellite antenna; and
- One (1) uninterruptible power supply (UPS) On-line type with at least 1000VA power capacity and cables included to connect to each Wi-Fi router and satellite antenna to electricity power (220V, Schuko connector).

3.2. Ensure network connectivity according to Section 4 “Satellite Network Requirements” for a minimum of one (1) year.

4. Satellite Network Requirements

4.1. The Satellite Antenna of Service A1 shall be working at the following service locations:

• **SERVICE LOCATION A1:**

SS “South-Ukraine NPP”
Yuzhnoukrains
Mykolaiv Region, 55000
Ukraine
Phone: +38 05136 417 38
E-mail: office@sunpp.atom.gov.ua

4.2 The Satellite Network at the indicated site/location shall have the following characteristics:

- One (1) expected simultaneous users (licenses) are required at each Satellite Antenna location;
- Service availability greater than 99% for a time period of one (1) year;

- Latency [the amount of time a message takes to traverse a computer network] between 100-500 ms. Latency below 100 ms is preferable;
- Download speed greater than 30 Mbps; and
- No internet data caps preferred.

5. Quality Requirements

5.1. The System shall be manufactured and shipped in accordance with the Contractor's ISO quality assurance system or an equivalent quality assurance system.

5.2. The Contractor shall document the compliance with this quality assurance system.

6. Installation and Technical Support

6.1. The Contractor shall ensure an easy to set up or self-installed Kit and/or Equipment. The System with self-installation by End-User is preferred. The End-User (SUNPP) will install the System and make the final connection to the router in each location. On-site installation is acceptable but not mandatory.

6.2. Upon request by the End-User, the Contractor should be available to provide support for installation, troubleshooting and resolving technical issues remotely.

7. Delivery Requirements

The Contractor should ensure the availability of the System preferably within six (6) weeks or less upon the receipt of IAEA Purchase Order.

8. Deliverable Data Items

The Contractor shall provide two complete sets of operation and servicing manuals in English language:
