N32778-15RC-0202C

BRAND NAME JUSTIFICATION

Name of Proposed Product Manufacturer:

Motorola Solutions Inc
7031 Columbia Gateway Dr
Columbia, MD 21046-2289

[redacted] (b) (5)

Description of Supplies/Services

Land Mobile Radios that are Host Nation Approved for use in Korea and operate on the US Navy UHF P25 Integrated Voice and Data Korea wide system.

Total: [redacted] (b) (5)

Reason for Authority Cited

Only one manufacturer can provide the FIPS 142.2 Level 3 Certified, equipment that meets this agencies minimum requirement as outlined in section 3 above.

IAW USFK 25-10 DTD 6 April 2010, only Land Mobile radios that are Host Nation Approved can be used by US Forces in Korea. Currently only the Motorola manufactured equipment listed in our requirement has obtained Host Nation Approval.

Market Research

There are several vendors that can provide the Motorola Manufactured equipment as listed under proposed vendors.

No other manufacturer has documented FIPS142.2 Level 3 certified LMR equipment that is Host Nation Approval. References:

http://csrc.nist.gov/groups/STM/cmvp/
8th Army Frequency Management Office

Additional Brand Name Justification

- This unit already has Motorola Radios and accessories
- **This unit is required to purchase only radios that are host nation approved. The APX radio product line is HOST NATION APPROVED for use in Korea**
- **This Unit requires radios that are FIPS 140-2 Level 3. The APX radio product line has FIPS 140-2 level 3 certification**
- US Navy units in Korea require longevity of battery life Batteries - Motorola radios ship standard **with IMPRES battery technology**. Motorola IMPRES batteries and IMPRES chargers provide automatic reconditioning, which eliminates the aggravating battery "memory" problem and having to manually track and condition batteries. IMPRES chargers also provide long-term safe charging, end-of-life display and other advanced features — all of which saves maintenance and labor costs and significantly reduces battery replacement costs.
- US Navy units in Korea radio users often encounter high noise environments. Portable radios must **include a dual sided 2 microphone design with advance noise cancelling technology** to remove the background noise in loud fire ground environments.
- US Navy units in Korea radio users must often be focused on their duty and cannot look away to change the channel on the radio. **Radios must include Voice Announcement** that allows users to navigate through channels/talk-groups and zones in the radio, while an audible, pre-recorded voice file provides a description of the selected channel or zone.
- Portable radios must be equipped with a large top display with intelligent lighting
- Project 25 - Motorola radios are Project 25 (P25) certified, and provide more than just basic P25 features. Frequently, other radios are certified for only a subset of the Project 25 features available. For example, other vendor's radios may not operate in Trunked System Failsoft Mode, Dynamic Regrouping (often used in disaster situations), Radio Check, Call Alert, Remote Monitor, Radio Trace, and Status Request. Missing needed features in a radio may impact safety and cost the government efficiency.
- OTAR - Other vendor's radios using Over-The-Air-Rekeying (OTAR) may only be capable of rekeying one radio at a time and often have to bring radios back to the shop, even when minor changes are made. Frequently, other radios cannot be securely inhibited over-the-air. When "manually" rekeyed with encryption, radios are likely to only work with discontinued KVL3000 Key Loaders.

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8/19/15