

**UNCLASSIFIED**

**SECURITY SUMMARY & SPECIAL HANDLING REQUIREMENTS**

**The title of this application is :** SYSTEM FOR NAVAL TARGET CONTROL

**The overall classification of this application is :** **UNCLASSIFIED**

**Refer to your Security Manual for further guidance.**

**The Application Level Special Handling is : A**

Approved for public release; distribution is unlimited (DoD Directive 5230.24)

**DOWNGRADING INSTRUCTIONS**

Special Handling Instruction :A

**CLASSIFICATION**

**UNCLASSIFIED**

APPLICATION FOR EQUIPMENT FREQUENCY ALLOCATION	CLASSIFICATION <b>UNCLASSIFIED</b>	DATE 2/3/2011	PAGE 1
<b>DOD GENERAL INFORMATION</b>			
TO		FROM	
1. APPLICATION TITLE			
2. SYSTEM NOMENCLATURE (U) System for Naval Target Control			
3. STAGE OF ALLOCATION (U) <input type="checkbox"/> a. STAGE 1 CONCEPTUAL <input type="checkbox"/> b. STAGE 2 EXPERIMENTAL <input type="checkbox"/> c. STAGE 3 DEVELOPMENTAL <input checked="" type="checkbox"/> d. STAGE 4 OPERATIONAL			
4. FREQUENCY REQUIREMENTS a. FREQUENCY(IES) (U) 358.0000 MHz - 380.0000 MHz b. EMISSION DESIGNATORS (U) 16K4G1D			
5. TARGET STARTING DATE FOR SUBSEQUENT STAGES			
a. STAGE 2	b. STAGE 3	c. STAGE 4 (U) 6/1/2012	
6. EXTENT OF USE (U) Intermittent			
7. GEOGRAPHICAL AREA FOR			
a. STAGE 2			
b. STAGE 3			
c. STAGE 4 (U) United States & Possesions (US&P), Gov't Test & Training Ranges - Single Point - Lat/Lon			
8. NUMBER OF UNITS			
a. STAGE 2	b. STAGE 3	c. STAGE 4 (U) 300	
9. NUMBER OF UNITS OPERATING SIMULTANEOUSLY IN THE SAME ENVIRONMENT (U) 35			
10. OTHER J/F 12 APPLICATION ID(S) TO BE <input type="checkbox"/> a. SUPERSEDED <input type="checkbox"/> b. RELATED		11. IS THERE ANY OPERATIONAL REQUIREMENT AS DESCRIBED IN THE INSTRUCTIONS FOR PARAGRAPH 11? <input type="checkbox"/> a. YES <input type="checkbox"/> b. NO <input type="checkbox"/> c. NAVAIL	
12. NAMES AND TELEPHONE NUMBERS			
(U) Mr. Les Jue			
(U) Mr. Khai Tran			
13. REMARKS (U) (U) Block 9: minimum 2, maximum 10  (U) Block 10: Supercedes J/F 12/09418  (U) Block 11: NAvail			
DOWNGRADING INSTRUCTIONS  Special Handling Instruction :A			CLASSIFICATION <b>UNCLASSIFIED</b>

APPLICATION FOR FOREIGN SPECTRUM SUPPORT	CLASSIFICATION <b>UNCLASSIFIED</b>	PAGE 2
<b>FOREIGN COORDINATION GENERAL INFORMATION</b>		
<b>1. APPLICATION TITLE</b>		
<b>2. SYSTEM NOMENCLATURE</b> (U) System for Naval Target Control		
<b>3. STAGE OF ALLOCATION</b> (U) <input type="checkbox"/> a. STAGE 1 CONCEPTUAL <input type="checkbox"/> b. STAGE 2 EXPERIMENTAL <input type="checkbox"/> c. STAGE 3 DEVELOPMENTAL <input checked="" type="checkbox"/> d. STAGE 4 OPERATIONAL		
<b>4. FREQUENCY REQUIREMENTS</b> a. <b>FREQUENCY(IES)</b> (U) 358.0000 MHz - 380.0000 MHz b. <b>EMISSION DESIGNATORS</b> (U) 16K4G1D		
<b>5. PROPOSED OPERATING LOCATIONS OUTSIDE US&amp;P</b> (U) United States & Possesions (US&P), Gov't Test & Training Ranges		
<b>6. PURPOSE OF SYSTEM, OPERATIONAL AND SYSTEM CONCEPTS</b> (U) System for Naval Target Control		
<b>7. INFORMATION TRANSFER REQUIREMENTS</b> (U) Not Applicable		
<b>8. NUMBER OF UNITS OPERATING SIMULTANEOUSLY IN THE SAME ENVIRONMENT</b> (U) 35		
<b>9. REPLACEMENT INFORMATION</b> (U) Not Applicable		
<b>10. LINE DIAGRAM</b> See Attached	<b>11. SPACE SYSTEMS</b>	
<b>12. PROJECTED OPERATIONAL DEPLOYMENT DATE</b> (U) 6/1/2012		
<b>13. REMARKS</b> (U)  (U) Block 9: minimum 2, maximum 10  (U) Block 10: Supercedes J/F 12/09418  (U) Block 11: NAvail		
<b>DOWNGRADING INSTRUCTIONS</b>  Special Handling Instruction :A		CLASSIFICATION <b>UNCLASSIFIED</b>

**TRANSMITTER EQUIPMENT CHARACTERISTICS**

<b>1. NOMENCLATURE, MANUFACTURER'S MODEL NO.</b> (U) Relay, (U) Model 282-2	<b>2. MANUFACTURER'S NAME</b> (U) MICRO SYSTEMS, INC.
<b>3. TRANSMITTER INSTALLATION</b> (U) See Block 24	<b>4. TRANSMITTER TYPE</b> (U) GMSK Transmitter
<b>5. TUNING RANGE</b> (U) 358.0000 - 380.0000 MHz	<b>6. METHOD OF TUNING</b> (U) Crystal Controlled PLL Synthesizer
<b>7. RF CHANNELING CAPABILITY</b> (U) 25.000 kHz Increments	<b>8. EMISSION DESIGNATORS</b> (U) 16K4G1D
<b>9. FREQUENCY TOLERANCE</b> (U) 2.5 ppm	<b>12. EMISSION BANDWIDTH</b>
<b>10. FILTER EMPLOYED</b> (U) Bandpass, fixed cavity	<input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED
<b>11. SPREAD SPECTRUM</b> <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO	<b>a. -3 dB</b> (U) 10 kHz
<b>13. MAXIMUM BIT RATE</b> (U) 14400 bps	<b>b. -20 dB</b> (U) 20 kHz
<b>14. MODULATION TECHNIQUES AND CODING</b> (U) Digital	<b>c. -40 dB</b> (U) 37 kHz
<b>16. PRE-EMPHASIS</b> <input type="checkbox"/> a. YES <input type="checkbox"/> b. NO	<b>d. -60 dB</b> (U) 75 kHz
<b>19. POWER</b> <b>a. MEAN</b> (U) 20.0 W - (U) 25.0 W	<b>e. OC-BW</b> (U) 16.400 kHz
<b>b. PEP</b>	<b>15. MAXIMUM MODULATION FREQUENCY</b> (U) 6.4000 kHz
<b>c. CARRIER</b>	<b>17. DEVIATION RATIO</b> (U) 0.625
<b>20. OUTPUT DEVICE</b> (U) Field Effect Transistor	<b>18. PULSE CHARACTERISTICS</b>
<b>22. SPURIOUS LEVEL</b> (U) -60.0 dB	<b>a. RATE</b>
<b>23. FCC TYPE ACCEPTANCE NO.</b> (U) NA	<b>b. WIDTH</b>
<b>24. REMARKS</b> (U) (U) Block 3: Aircraft, Fixed Site, Seaborne or Mobile Land.	<b>c. RISE TIME</b>
	<b>d. FALL TIME</b>
	<b>e. COMP RATIO</b>
	<b>21. HARMONIC LEVEL</b>
	<b>a.</b> (U) -60.0 dB
	<b>b.</b> (U) -80.0 dB
	<b>c.</b> (U) -80.0 dB

**TRANSMITTER EQUIPMENT CHARACTERISTICS**

<b>1. NOMENCLATURE, MANUFACTURER'S MODEL NO.</b> (U) Ground RF Unit (GRFU), (U) Model 825	<b>2. MANUFACTURER'S NAME</b> (U) MICRO SYSTEMS, INC.
<b>3. TRANSMITTER INSTALLATION</b> (U) See Block 24	<b>4. TRANSMITTER TYPE</b> (U) GMSK Transmitter
<b>5. TUNING RANGE</b> (U) 358.0000 - 380.0000 MHz	<b>6. METHOD OF TUNING</b> (U) Crystal Controlled PLL Synthesizer
<b>7. RF CHANNELING CAPABILITY</b> (U) 25.000 kHz Increments	<b>8. EMISSION DESIGNATORS</b> (U) 16K4G1D
<b>9. FREQUENCY TOLERANCE</b> (U) 2.5 ppm	<b>12. EMISSION BANDWIDTH</b>
<b>10. FILTER EMPLOYED</b> (U) Bandpass, fixed cavity	<input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED
<b>11. SPREAD SPECTRUM</b> <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO	<b>a. -3 dB</b> (U) 10 kHz
<b>13. MAXIMUM BIT RATE</b> (U) 14400 bps	<b>b. -20 dB</b> (U) 20 kHz
<b>14. MODULATION TECHNIQUES AND CODING</b> (U) Digital	<b>c. -40 dB</b> (U) 37 kHz
<b>16. PRE-EMPHASIS</b> <input type="checkbox"/> a. YES <input type="checkbox"/> b. NO	<b>d. -60 dB</b> (U) 75 kHz
<b>19. POWER</b> <b>a. MEAN</b> (U) 10.0 W - (U) 12.5 W	<b>e. OC-BW</b> (U) 16.400 kHz
<b>b. PEP</b>	<b>15. MAXIMUM MODULATION FREQUENCY</b> (U) 6.4000 kHz
<b>c. CARRIER</b>	<b>17. DEVIATION RATIO</b> (U) 0.625
<b>20. OUTPUT DEVICE</b> (U) Field Effect Transistor	<b>18. PULSE CHARACTERISTICS</b>
<b>22. SPURIOUS LEVEL</b> (U) -60.0 dB	<b>a. RATE</b>
<b>23. FCC TYPE ACCEPTANCE NO.</b> (U) NA	<b>b. WIDTH</b>
<b>24. REMARKS</b> (U) (U) Block 3: Aircraft, Fixed Site, Seaborne or Mobile Land	<b>c. RISE TIME</b>
	<b>d. FALL TIME</b>
	<b>e. COMP RATIO</b>
	<b>21. HARMONIC LEVEL</b>
	<b>a.</b> (U) -60.0 dB
	<b>b.</b> (U) -80.0 dB
	<b>c.</b> (U) -80.0 dB

**TRANSMITTER EQUIPMENT CHARACTERISTICS**

<b>1. NOMENCLATURE, MANUFACTURER'S MODEL NO.</b> (U) Transponder, (U) Model 280-6	<b>2. MANUFACTURER'S NAME</b> (U) MICRO SYSTEMS, INC.
<b>3. TRANSMITTER INSTALLATION</b> (U) See Block 24	<b>4. TRANSMITTER TYPE</b> (U) GMSK Transmitter
<b>5. TUNING RANGE</b> (U) 358.0000 - 380.0000 MHz	<b>6. METHOD OF TUNING</b> (U) Crystal Controlled PLL Synthesizer
<b>7. RF CHANNELING CAPABILITY</b> (U) 25.000 kHz Increments	<b>8. EMISSION DESIGNATORS</b> (U) 16K4G1D
<b>9. FREQUENCY TOLERANCE</b> (U) 2.5 ppm	<b>12. EMISSION BANDWIDTH</b>
<b>10. FILTER EMPLOYED</b> (U) Bandpass, fixed cavity	<input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED
<b>11. SPREAD SPECTRUM</b> <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO	<b>a. -3 dB</b> (U) 10 kHz
<b>13. MAXIMUM BIT RATE</b> (U) 14400 bps	<b>b. -20 dB</b> (U) 20 kHz
<b>14. MODULATION TECHNIQUES AND CODING</b> (U) Digital	<b>c. -40 dB</b> (U) 37 kHz
<b>16. PRE-EMPHASIS</b> <input type="checkbox"/> a. YES <input type="checkbox"/> b. NO	<b>d. -60 dB</b> (U) 75 kHz
<b>19. POWER</b> <b>a. MEAN</b> (U) 5.00 W - (U) 7.50 W	<b>e. OC-BW</b> (U) 16.400 kHz
<b>b. PEP</b>	<b>15. MAXIMUM MODULATION FREQUENCY</b> (U) 6.4000 kHz
<b>c. CARRIER</b>	<b>17. DEVIATION RATIO</b> (U) 0.625
<b>20. OUTPUT DEVICE</b> (U) Field Effect Transistor	<b>18. PULSE CHARACTERISTICS</b>
<b>22. SPURIOUS LEVEL</b> (U) -60.0 dB	<b>a. RATE</b>
<b>23. FCC TYPE ACCEPTANCE NO.</b> (U) NA	<b>b. WIDTH</b>
<b>24. REMARKS</b> (U) (U) Block 3: Targets (Aircraft, Seaborne, Land), Fixed Site.	<b>c. RISE TIME</b>
	<b>d. FALL TIME</b>
	<b>e. COMP RATIO</b>
	<b>21. HARMONIC LEVEL</b>
	<b>a.</b> (U) -60.0 dB
	<b>b.</b> (U) -80.0 dB
	<b>c.</b> (U) -80.0 dB

**RECEIVER EQUIPMENT CHARACTERISTICS**

<b>1. NOMENCLATURE, MANUFACTURER'S MODEL NO.</b> (U) Relay, (U) Model 282-2				<b>2. MANUFACTURER'S NAME</b> (U) MICRO SYSTEMS, INC.			
<b>3. RECEIVER INSTALLATION</b> (U) See Block 21				<b>4. RECEIVER TYPE</b> (U) Single Conversion Superheterodyne			
<b>5. TUNING RANGE</b> (U) 358.0000 - 380.0000 MHz				<b>6. METHOD OF TUNING</b> (U) Crystal Controlled PLL Synthesizer			
<b>7. RF CHANNELING CAPABILITY</b> (U) 25.000 kHz Increments				<b>8. EMISSION DESIGNATORS</b> (U) 16K4G1D			
<b>9. FREQUENCY TOLERANCE</b> (U) 2.5 ppm				<b>11. RF SELECTIVITY</b> <input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED			
<b>10. IF SELECTIVITY</b>	<b>1st (U)</b>	<b>2nd</b>	<b>3rd</b>	<b>a. -3 dB</b> (U) 23000 kHz			
<b>a. -3 dB</b>	(U) 25 kHz			<b>b. -20 dB</b> (U) 26000 kHz			
<b>b. -20 dB</b>	(U) 34 kHz			<b>c. -60 dB</b> (U) 36000 kHz			
<b>c. -60 dB</b>	(U) 50 kHz			<b>d. Preselection Type</b> (U) Bandpass			
<b>12. IF FREQUENCY</b>				<b>13. MAXIMUM POST DETECTION FREQUENCY</b>			
<b>a. 1st</b> (U) 0.4550000 MHz							
<b>b. 2nd</b>				<b>14. MINIMUM POST DETECTION FREQUENCY</b>			
<b>c. 3rd</b>							
<b>15. OSCILLATOR TUNED</b>		<b>1st</b>	<b>2nd</b>	<b>16. MAXIMUM BIT RATE</b> (U) 14400 bps			
<b>a. ABOVE TUNED FREQUENCY</b>				<b>17. SENSITIVITY</b>			
<b>b. BELOW TUNED FREQUENCY</b>		(U) X		<b>a. SENSITIVITY</b> (U) -107 dBm			
<b>c. EITHER ABOVE OR BELOW THE FREQUENCY</b>				<b>b. CRITERIA</b> (U) 0.00001 (U) BER - Bit Error Rate			
<b>18. DE-EMPHASIS</b> <input type="checkbox"/> a. YES <input type="checkbox"/> b. NO				<b>c. NOISE FIG</b> (U) 4.00 dB			
<b>19. IMAGE REJECTION</b> (U) 70.0 dB				<b>d. NOISE TEMP</b> (U) 438 K			
				<b>20. SPURIOUS REJECTION</b> (U) 70.0 dB			

**21. REMARKS (U)**  
(U) Block 3: Aircraft, Fixed Site, Seaborne or Mobile Land.

**RECEIVER EQUIPMENT CHARACTERISTICS**

<b>1. NOMENCLATURE, MANUFACTURER'S MODEL NO.</b> (U) Ground RF Unit (GRFU), (U) Model 825				<b>2. MANUFACTURER'S NAME</b> (U) MICRO SYSTEMS, INC.			
<b>3. RECEIVER INSTALLATION</b> (U) See Block 21				<b>4. RECEIVER TYPE</b> (U) Single Conversion Superheterodyne			
<b>5. TUNING RANGE</b> (U) 358.0000 - 380.0000 MHz				<b>6. METHOD OF TUNING</b> (U) Crystal Controlled PLL Synthesizer			
<b>7. RF CHANNELING CAPABILITY</b> (U) 25.000 kHz Increments				<b>8. EMISSION DESIGNATORS</b> (U) 16K4G1D			
<b>9. FREQUENCY TOLERANCE</b> (U) 2.5 ppm				<b>11. RF SELECTIVITY</b> <input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED			
<b>10. IF SELECTIVITY</b>	<b>1st (U)</b>	<b>2nd</b>	<b>3rd</b>	<b>a. -3 dB</b> (U) 23000 kHz			
<b>a. -3 dB</b>	(U) 25 kHz			<b>b. -20 dB</b> (U) 26000 kHz			
<b>b. -20 dB</b>	(U) 34 kHz			<b>c. -60 dB</b> (U) 36000 kHz			
<b>c. -60 dB</b>	(U) 50 kHz			<b>d. Preselection Type</b> (U) Bandpass			
<b>12. IF FREQUENCY</b>				<b>13. MAXIMUM POST DETECTION FREQUENCY</b>			
<b>a. 1st</b> (U) 0.4550000 MHz							
<b>b. 2nd</b>				<b>14. MINIMUM POST DETECTION FREQUENCY</b>			
<b>c. 3rd</b>							
<b>15. OSCILLATOR TUNED</b>		<b>1st</b>	<b>2nd</b>	<b>16. MAXIMUM BIT RATE</b> (U) 14400 bps			
<b>a. ABOVE TUNED FREQUENCY</b>				<b>17. SENSITIVITY</b>			
<b>b. BELOW TUNED FREQUENCY</b>		(U) X		<b>a. SENSITIVITY</b> (U) -105 dBm			
<b>c. EITHER ABOVE OR BELOW THE FREQUENCY</b>				<b>b. CRITERIA</b> (U) 0.00001 (U) BER - Bit Error Rate			
<b>18. DE-EMPHASIS</b> <input type="checkbox"/> a. YES <input type="checkbox"/> b. NO				<b>c. NOISE FIG</b> (U) 4.00 dB			
<b>19. IMAGE REJECTION</b> (U) 70.0 dB				<b>d. NOISE TEMP</b> (U) 438 K			
				<b>20. SPURIOUS REJECTION</b> (U) 70.0 dB			

**21. REMARKS (U)**  
(U) Block 3: Aircraft, Fixed Site, Seaborne or Mobile Land



**RECEIVER EQUIPMENT CHARACTERISTICS**

<b>1. NOMENCLATURE, MANUFACTURER'S MODEL NO.</b> (U) Transponder, (U) Model 280-6				<b>2. MANUFACTURER'S NAME</b> (U) MICRO SYSTEMS, INC.			
<b>3. RECEIVER INSTALLATION</b> (U) See Block 21				<b>4. RECEIVER TYPE</b> (U) Single Conversion Superheterodyne			
<b>5. TUNING RANGE</b> (U) 358.0000 - 380.0000 MHz				<b>6. METHOD OF TUNING</b> (U) Crystal Controlled PLL Synthesizer			
<b>7. RF CHANNELING CAPABILITY</b> (U) 25.000 kHz Increments				<b>8. EMISSION DESIGNATORS</b> (U) 16K4G1D			
<b>9. FREQUENCY TOLERANCE</b> (U) 2.5 ppm				<b>11. RF SELECTIVITY</b> <input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED			
<b>10. IF SELECTIVITY</b>	<b>1st (U)</b>	<b>2nd</b>	<b>3rd</b>	<b>a. -3 dB</b> (U) 23000 kHz			
<b>a. -3 dB</b>	(U) 25 kHz			<b>b. -20 dB</b> (U) 26000 kHz			
<b>b. -20 dB</b>	(U) 34 kHz			<b>c. -60 dB</b> (U) 36000 kHz			
<b>c. -60 dB</b>	(U) 50 kHz			<b>d. Preselection Type</b> (U) Bandpass			
<b>12. IF FREQUENCY</b>				<b>13. MAXIMUM POST DETECTION FREQUENCY</b>			
<b>a. 1st</b> (U) 0.4550000 MHz							
<b>b. 2nd</b>				<b>14. MINIMUM POST DETECTION FREQUENCY</b>			
<b>c. 3rd</b>							
<b>15. OSCILLATOR TUNED</b>		<b>1st</b>	<b>2nd</b>	<b>16. MAXIMUM BIT RATE</b> (U) 14400 bps			
<b>a. ABOVE TUNED FREQUENCY</b>				<b>17. SENSITIVITY</b>			
<b>b. BELOW TUNED FREQUENCY</b>		(U) X		<b>a. SENSITIVITY</b> (U) -103 dBm			
<b>c. EITHER ABOVE OR BELOW THE FREQUENCY</b>				<b>b. CRITERIA</b> (U) 0.00001 (U) BER - Bit Error Rate			
<b>18. DE-EMPHASIS</b> <input type="checkbox"/> a. YES <input type="checkbox"/> b. NO				<b>c. NOISE FIG</b> (U) 4.00 dB			
<b>19. IMAGE REJECTION</b> (U) 70.0 dB				<b>d. NOISE TEMP</b> (U) 438 K			
				<b>20. SPURIOUS REJECTION</b> (U) 70.0 dB			

**21. REMARKS (U)**  
(U) Targets (Aircraft, Seaborne, Land), Fixed Site.

**ANTENNA EQUIPMENT CHARACTERISTICS**

1.  a. TRANSMITTING       b. RECEIVING       c. TRANSMITTING AND RECEIVING

2. **NOMENCLATURE, MANUFACTURER'S MODEL NO.**  
(U) 4 element dipole array, (U) ANT375D6-9

3. **MANUFACTURER'S NAME**  
(U) TELEWAVE, INC.

4. **FREQUENCY RANGE**  
(U) 358.0000 - 380.0000 MHz

5. **TYPE** (U) Dipole Array

6. **POLARIZATION**  
(U) Vertical

7. **SCAN CHARACTERISTICS**

a. **TYPE**

b. **VERTICAL SCAN**

8. **GAIN**

(1) Max Elev

a. **MAIN BEAM**  
(U) 11.2 dBi

(2) Min Elev

b. **1st MAJOR SIDE LOBE**  
Horz. (U) 3 dB Actual    Vert. (U) -14 dB Actual

(3) Scan Rate

9. **BEAMWIDTH**

c. **HORIZONTAL SCAN**

a. **HORIZONTAL**  
(U) 60.0 degrees

(1) Sector Scanned

b. **VERTICAL**  
(U) 15.0 degrees

(2) Scan Rate

d. **SECTOR BLANKING**       (1) YES       (2) NO

10. **REMARKS**

**ANTENNA EQUIPMENT CHARACTERISTICS**

1.  a. TRANSMITTING       b. RECEIVING       c. TRANSMITTING AND RECEIVING

2. **NOMENCLATURE, MANUFACTURER'S MODEL NO.**  
(U) Quarter Wave Monopole, (U) AO369.0MON(TNC)

3. **MANUFACTURER'S NAME**  
(U) UBC, INC. (TAMPA, FLORIDA)

4. **FREQUENCY RANGE**  
(U) 358.0000 - 380.0000 MHz

5. **TYPE** (U) Monopole

6. **POLARIZATION**  
(U) Vertical

7. **SCAN CHARACTERISTICS**

a. **TYPE**

b. **VERTICAL SCAN**

(1) Max Elev

(2) Min Elev

(3) Scan Rate

8. **GAIN**

c. **HORIZONTAL SCAN**

(1) Sector Scanned

(2) Scan Rate

a. **MAIN BEAM**  
(U) 2.20 dBi

b. **1st MAJOR SIDE LOBE**  
Horz. (U) 2.2 dB Actual    Vert. (U) -12.8 dB Actual

9. **BEAMWIDTH**

d. **SECTOR BLANKING**       (1) YES       (2) NO

a. **HORIZONTAL**  
(U) 360 degrees

b. **VERTICAL**  
(U) 45.0 degrees

10. **REMARKS**

<b>APPLICATION FOR SPECTRUM REVIEW</b>	<b>CLASSIFICATION UNCLASSIFIED</b>	<b>PAGE 11</b>
<b>NTIA GENERAL INFORMATION</b>		
<b>1. APPLICATION TITLE</b>		
<b>2. SYSTEM NOMENCLATURE</b> (U) System for Naval Target Control		
<b>3. STAGE OF ALLOCATION</b> (U) <input type="checkbox"/> <b>a. STAGE 1 CONCEPTUAL</b> <input type="checkbox"/> <b>b. STAGE 2 EXPERIMENTAL</b> <input type="checkbox"/> <b>c. STAGE 3 DEVELOPMENTAL</b> <input checked="" type="checkbox"/> <b>d. STAGE 4 OPERATIONAL</b>		
<b>4. FREQUENCY REQUIREMENTS</b> (See Remarks for any Selected Modes) <b>a. FREQUENCY(IES)</b> (U) 358.0000 MHz - 380.0000 MHz <b>b. EMISSION DESIGNATORS</b> (U) 16K4G1D		
<b>5. PURPOSE OF SYSTEM, OPERATIONAL AND SYSTEM CONCEPTS</b> (WARTIME USE) (U) <input type="checkbox"/> <b>a. YES</b> <input checked="" type="checkbox"/> <b>b. NO</b> (U) System for Naval Target Control		
<b>6. INFORMATION TRANSFER REQUIREMENTS</b> (U) Not Applicable		
<b>7. ESTIMATED INITIAL COST OF THE SYSTEM</b> (U) \$ 1400		
<b>8. TARGET DATE FOR</b>		
<b>a. APPLICATION APPROVAL</b> (U) 5/1/2012	<b>b. SYSTEM ACTIVATION</b> (U) 6/1/2012	<b>c. SYSTEM TERMINATION</b> (U) 10/1/2035
<b>9. SYSTEM RELATIONSHIP AND ESSENTIALITY</b> (U) Not Applicable		
<b>10. REPLACEMENT INFORMATION</b> (U) Not Applicable		
<b>11. RELATED ANALYSIS AND/OR TEST DATA</b>		
<b>12. NUMBER OF UNITS</b> (U) 85		
<b>13. GEOGRAPHICAL AREA FOR</b>		
<b>a. STAGE 2</b>		
<b>b. STAGE 3</b>		
<b>c. STAGE 4</b> (U) United States & Possessions (US&P), Gov't Test & Training Ranges - Single Point - Lat/Lon		
<b>14. LINE DIAGRAM</b> See Attached	<b>15. SPACE SYSTEMS</b>	
<b>16. TYPES OF SERVICE(S) FOR STAGE 4</b> Aeronautical Mobile	<b>17. STATION CLASS(ES) FOR STAGE 4</b> FA                      FAD                      MA                      MAD (See Data Overflow Page)	
<b>18. REMARKS</b>		
TX (U) Ground RF Unit (GRFU), RX (U) Relay, (U) 12.5 W Mean, (U) 358.0000 MHz - 380.0000 MHz (U) 16K4G1D TX (U) Ground RF Unit (GRFU), RX (U) Transponder, (U) 12.5 W Mean, (U) 358.0000 MHz - 380.0000 MHz (U) 16K4G1D TX (U) Relay, RX (U) Ground RF Unit (GRFU), (U) 25.0 W Mean, (U) 358.0000 MHz - 380.0000 MHz (U) 16K4G1D TX (U) Relay, RX (U) Transponder, (U) 25.0 W Mean, (U) 358.0000 MHz - 380.0000 MHz (U) 16K4G1D TX (U) Transponder, RX (U) Ground RF Unit (GRFU), (U) 7.50 W Mean, (U) 358.0000 MHz - 380.0000 MHz (U) 16K4G1D TX (U) Transponder, RX (U) Relay, (U) 7.50 W Mean, (U) 358.0000 MHz - 380.0000 MHz (U) 16K4G1D		
<b>DOWNGRADING INSTRUCTIONS</b>		<b>CLASSIFICATION UNCLASSIFIED</b>
Special Handling Instruction :A		

**NTIA DATA OVERFLOW PAGE**

17. STATION CLASS(ES) FOR STAGE 4  
MOEB

**DOWNGRADING INSTRUCTIONS**

Special Handling Instruction :A

CLASSIFICATION  
**UNCLASSIFIED**

**UNCLASSIFIED**

**Line Diagram: System for Naval Target Control**

**UNCLASSIFIED**