

APPLICATION FOR EQUIPMENT FREQUENCY ALLOCATION	CLASSIFICATION UNCLASSIFIED	DATE 04/11/1986	J/F 12/06043
			Page 1 of 12 Pages
DOD GENERAL INFORMATION			
TO	USAF FREQUENCY MANAGEMENT CENTER/FME WASHINGTON, DC 20330-6341	FROM	HQ AFSC/SIOM ASD 001-86 ANDREWS AFB, MD 20334-5000
1. APPLICATION TITLE	(U) SOUTHERN CALIFORNIA MICROWAVE (SCM) MODEL TTX135-6, TTX13S-10A VTX13S-10A/2SC (See Remarks)		
2. SYSTEM NOMENCLATURE	(U) RECEIVERS TTX13S-10A, VTX13S-10A/2SC TRANSMITTERS AND	See Data Overflow Page	
3. STAGE OF ALLOCATION	(U) <input type="checkbox"/> a. STAGE 1 CONCEPTUAL	<input type="checkbox"/> b. STAGE 2 EXPERIMENTAL	<input checked="" type="checkbox"/> c. STAGE 3 DEVELOPMENTAL
			<input type="checkbox"/> d. STAGE 4 OPERATIONAL
4. FREQUENCY REQUIREMENTS			
a. FREQUENCY(IES)	(U) 2200 MHz - 2300 MHz		
b. EMISSION DESIGNATORS	(U) 6M00F9D		
5. TARGET STARTING DATE FOR SUBSEQUENT STAGES			
a. STAGE 2	(U) NA	b. STAGE 3	(U) 04/01/1986
		c. STAGE 4	(U) NA
6. EXTENT OF USE	(U) 3-5 HRS CONTINUOUS TRANSMITTING DURING INTERMITTENT TESTS		
7. GEOGRAPHICAL AREA FOR			
a. STAGE 2	(U) NA		
b. STAGE 3	(U) 250 MI RADIUS: FT WORTH, TX, EDWARDS AFB, CA, (SEE REMARKS)		
c. STAGE 4	(U) *		
8. NUMBER OF UNITS			
a. STAGE 2	(U) 4	b. STAGE 3	(U) 8
		c. STAGE 4	(U) NA
9. NUMBER OF UNITS OPERATING SIMULTANEOUSLY IN THE SAME ENVIRONMENT	(U) 4		
10. OTHER J/F 12 APPLICATION ID(S) TO BE			
(U) <input type="checkbox"/> a. SUPERSEDED			
<input type="checkbox"/> b. RELATED			
11. IS THERE ANY OPERATIONAL REQUIREMENT AS DESCRIBED IN THE INSTRUCTIONS FOR PARAGRAPH 11?			
(U) <input type="checkbox"/> a. YES	<input type="checkbox"/> b. NO	<input type="checkbox"/> c. NAVAIL	
12. NAMES AND TELEPHONE NUMBERS			
a. PROGRAM MANAGER ART LUSTY	(1) COMMERCIAL 817-777-1854	(2) DSN	
b. PROJECT ENGINEER DON BARNETT	(1) COMMERCIAL 817-777-3915	(2) DSN	
13. REMARKS	(U)		
Item 1: Southern California Microwave (SCM) Model TTX135-6, TTX13S-10A, VTX13S-10A/2SC Transmitters and Microdyne Model 1100-AR, SCM Model VRX23SA/2SC Receivers.			
THE TTX13S-10A TRANSMITTER IS ELECTICALLY IDENTICAL TO THE TTX13S-6 TRANSMITTER.			
Item 7b: ENGLIN AFB, FL AND OTHER US TEST AND TRAINING RANGES TO BE DETERMINED.			
Block 7c : - add "Eglin AFB, FL, NAWCAD, Patuxent River, MD, and NAWCWD, China Lake, CA."			
DOWNGRADING INSTRUCTIONS			J/F 12/06043
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DOD DATA OVERFLOW PAGE

2. SYSTEM NOMENCLATURE (U) MICRODYNE MODEL 1100-AR, SCM MODEL VRX23SA/2SC
SOUTHERN CALIFORNIA MICROWAVE MODEL TTX135-6,

4. FREQUENCY REQUIREMENTS

10. OTHER J/F 12 APPLICATION NUMBER(S) TO BE

b. RELATED J/F 12/

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TRANSMITTER EQUIPMENT CHARACTERISTICS			
1. NOMENCLATURE, MANUFACTURER'S MODEL NO. (U) SMW MODEL TTX135-6 TELEMETRY TRANSMITTER		2. MANUFACTURER'S NAME (U) SOUTHERN CALIFORNIA MICROWAVE	
3. TRANSMITTER INSTALLATION (U) F-16 AIRCRAFT *		4. TRANSMITTER TYPE (U) TELEMETRY	
5. TUNING RANGE (U) 2200 MHz - 2300 MHz		6. METHOD OF TUNING (U) Crystal Controlled	
7. RF CHANNELING CAPABILITY (U) 100 CHS, 2200 MHz, 1 MHz STEPS		8. EMISSION DESIGNATORS (U) 6M00F9D (U) 6M00F9D (U)	
9. FREQUENCY TOLERANCE (U) 30 ppm		12. EMISSION BANDWIDTH <input checked="" type="checkbox"/> CALCULATED <input type="checkbox"/> MEASURED	
10. FILTER EMPLOYED (U) <input checked="" type="checkbox"/> a. YES <input type="checkbox"/> b. NO		a. -3 dB (U) 4 MHz (U) (U)	
11. SPREAD SPECTRUM (U) <input type="checkbox"/> a. YES <input type="checkbox"/> b. NO		b. -20 dB (U) 6 MHz (U) (U)	
13. MAXIMUM BIT RATE (U) 512 Kbps		c. -40 dB (U) NAvail (U) (U)	
14. MODULATION TECHNIQUES AND CODING (U)		d. -60 dB (U) 9 MHz (U) (U)	
16. PRE-EMPHASIS (U) <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO		e. OC-BW (U) 6 MHz (U) (U)	
19. POWER		15. MAXIMUM MODULATION FREQUENCY (U) 1 MHz	
a. MEAN (U) 6 W (U) 10 W (U)		17. DEVIATION RATIO (U) 1.024	
b. PEP (U) NA (U) (U)		18. PULSE CHARACTERISTICS	
20. OUTPUT DEVICE (U) BIPOLOAR TRANSISTOR		a. RATE (U) NA (U) NA (U)	
22. SPURIOUS LEVEL (U) -80 dB		b. WIDTH (U) (U) (U)	
23. FCC TYPE ACCEPTANCE NO. (U) NA		c. RISE TIME (U) (U) (U)	
24. REMARKS (U)		d. FALL TIME (U) (U) (U)	
item 3: AeroNautics (AeroLight, AeroSky & AeroStar) Unmanned Aerial Vehicles and their respective UAV Ground Control Stations.		e. COMP RATIO (U) (U) (U)	
Item 17: AT 512kbps		21. HARMONIC LEVEL	
Item 22: dBc		a. 2nd (U) -63 dB	
Item 21: dBc		b. 3rd (U) -63 dB	
Item 10: Filter employed: Low Pass		c. OTHER (U) -80 dB	
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TRANSMITTER EQUIPMENT CHARACTERISTICS			
1. NOMENCLATURE, MANUFACTURER'S MODEL NO. (U) VTX13S-10A/2SC		2. MANUFACTURER'S NAME (U) Southern California Microwave	
3. TRANSMITTER INSTALLATION (U) Maverick UAV		4. TRANSMITTER TYPE (U) FM Communications	
5. TUNING RANGE (U) 2200 MHz - 2400 MHz		6. METHOD OF TUNING (U) Synthesizer	
7. RF CHANNELING CAPABILITY (U) 2200 MHz, 1 MHz increments		8. EMISSION DESIGNATORS (U) 18M0F8W (U) (U)	
9. FREQUENCY TOLERANCE (U) 30 ppm		12. EMISSION BANDWIDTH <input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED	
10. FILTER EMPLOYED (U) <input checked="" type="checkbox"/> a. YES <input type="checkbox"/> b. NO		a. -3 dB (U) 3 MHz (U) (U)	
11. SPREAD SPECTRUM (U) <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO		b. -20 dB (U) 15 MHz (U) (U)	
13. MAXIMUM BIT RATE (U) NA		c. -40 dB (U) NA (U) (U)	
14. MODULATION TECHNIQUES AND CODING (U) FM Analog Video with FM Subcarriers		d. -60 dB (U) 41 MHz (U) (U)	
16. PRE-EMPHASIS (U) <input checked="" type="checkbox"/> a. YES <input type="checkbox"/> b. NO		e. OC-BW (U) 18 MHz (U) (U)	
19. POWER		15. MAXIMUM MODULATION FREQUENCY (U) (See Remarks)	
a. MEAN (U) 10 W (U) (U)		17. DEVIATION RATIO (U) (See Remarks)	
b. PEP (U) NA (U) (U)		18. PULSE CHARACTERISTICS	
20. OUTPUT DEVICE (U) FET, Common Source		a. RATE (U) NA (U) (U)	
22. SPURIOUS LEVEL (U) -80 dB		b. WIDTH (U) NA (U) (U)	
23. FCC TYPE ACCEPTANCE NO. (U) NA		c. RISE TIME (U) NA (U) (U)	
24. REMARKS (U)		d. FALL TIME (U) NA (U) (U)	
<p>Item 10: 5-Pole Chebychev lowpass filter between output device and antenna connector. Approximately 0.5 dB insertion loss with approximately 25 dB attenuation at 2X transmitting frequency.</p> <p>Items 15/17: FM Video: Maximum Modulation Frequency = 4.2 MHz; Deviation Ratio = 1; Two FM subcarriers: Maximum Modulation Frequency at 6.8 MHz and 7.5 MHz; Deviation Ratio = 0.8 for both subcarriers.</p> <p>Item 16: Video Pre-emphasis is per CCIR 405, 525 line curve.</p>		e. COMP RATIO (U) NA (U) (U)	
		21. HARMONIC LEVEL	
		a. 2nd (U) -65 dB	
		b. 3rd (U) -65 dB	
		c. OTHER (U) -80 dB	
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RECEIVER EQUIPMENT CHARACTERISTICS																									
1. NOMENCLATURE, MANUFACTURER'S MODEL NO. (U) MDC MODEL 1100-AR RECEIVER	2. MANUFACTURER'S NAME (U) MICRODYNE CORPORATION																								
3. RECEIVER INSTALLATION (U) GENERAL DYNAMICS-FT WORTH*	4. RECEIVER TYPE (U) DUAL CONVERSION SUPERHETERODYNE																								
5. TUNING RANGE (U) 65 MHz - 4.2 GHz	6. METHOD OF TUNING (U) Voltage Controlled Oscillator																								
7. RF CHANNELING CAPABILITY (U) CONTINUOUS	8. EMISSION DESIGNATORS (U) 6M00F9D																								
9. FREQUENCY TOLERANCE (U) 500 ppm	11. RF SELECTIVITY <input checked="" type="checkbox"/> CALCULATED <input type="checkbox"/> MEASURED																								
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:20%;">10. IF SELECTIVITY</th> <th style="width:20%;">1st (U)</th> <th style="width:20%;">2nd (U)</th> <th style="width:20%;">3rd (U)</th> </tr> <tr> <td>a. -3 dB</td> <td>4.0 MHz</td> <td>1.0 MHz</td> <td></td> </tr> <tr> <td>b. -20 dB</td> <td>6.0 MHz</td> <td>1.5 MHz</td> <td></td> </tr> <tr> <td>c. -60 dB</td> <td>12.6 MHz</td> <td>3.5 MHz</td> <td></td> </tr> </table>	10. IF SELECTIVITY	1st (U)	2nd (U)	3rd (U)	a. -3 dB	4.0 MHz	1.0 MHz		b. -20 dB	6.0 MHz	1.5 MHz		c. -60 dB	12.6 MHz	3.5 MHz		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td>a. -3 dB</td> <td>(U) 7.5 MHz</td> </tr> <tr> <td>b. -20 dB</td> <td>(U) 16 MHz</td> </tr> <tr> <td>c. -60 dB</td> <td>(U) 48 MHz</td> </tr> <tr> <td>d. Preselection Type</td> <td>(U) NONE</td> </tr> </table>	a. -3 dB	(U) 7.5 MHz	b. -20 dB	(U) 16 MHz	c. -60 dB	(U) 48 MHz	d. Preselection Type	(U) NONE
10. IF SELECTIVITY	1st (U)	2nd (U)	3rd (U)																						
a. -3 dB	4.0 MHz	1.0 MHz																							
b. -20 dB	6.0 MHz	1.5 MHz																							
c. -60 dB	12.6 MHz	3.5 MHz																							
a. -3 dB	(U) 7.5 MHz																								
b. -20 dB	(U) 16 MHz																								
c. -60 dB	(U) 48 MHz																								
d. Preselection Type	(U) NONE																								
12. IF FREQUENCY a. 1st (U) 50 MHz b. 2nd (U) 4.2 MHz c. 3rd (U) NA	13. MAXIMUM POST DETECTION FREQUENCY (U) 1 MHz																								
15. OSCILLATOR TUNED <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:30%;"></th> <th style="width:10%;">1st (U)</th> <th style="width:10%;">2nd (U)</th> <th style="width:10%;">3rd (U)</th> </tr> <tr> <td>a. ABOVE TUNED FREQUENCY</td> <td style="text-align: center;">X</td> <td style="text-align: center;">X</td> <td></td> </tr> <tr> <td>b. BELOW TUNED FREQUENCY</td> <td></td> <td></td> <td></td> </tr> <tr> <td>c. EITHER ABOVE OR BELOW THE FREQUENCY</td> <td></td> <td></td> <td></td> </tr> </table>		1st (U)	2nd (U)	3rd (U)	a. ABOVE TUNED FREQUENCY	X	X		b. BELOW TUNED FREQUENCY				c. EITHER ABOVE OR BELOW THE FREQUENCY				14. MINIMUM POST DETECTION FREQUENCY (U) 50 KHz								
	1st (U)	2nd (U)	3rd (U)																						
a. ABOVE TUNED FREQUENCY	X	X																							
b. BELOW TUNED FREQUENCY																									
c. EITHER ABOVE OR BELOW THE FREQUENCY																									
18. DE-EMPHASIS (U) <input type="checkbox"/> a. YES <input checked="" type="checkbox"/> b. NO	16. MAXIMUM BIT RATE (U) 512 Kbps																								
19. IMAGE REJECTION (U) 75 dB	17. SENSITIVITY a. SENSITIVITY (U) -93 dBm b. CRITERIA (U) 10 dB S/N c. NOISE FIG (U) NAvail d. NOISE TEMP (U) NA																								
21. REMARKS (U) item 3: AeroNautics (AeroLight, AeroSky & AeroStar) Unmanned Aerial Vehicles and various aircraft, manned and unmanned. Item 20: dBc Item 19: dBc	20. SPURIOUS REJECTION (U) 60 dB																								
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RECEIVER EQUIPMENT CHARACTERISTICS						
1. NOMENCLATURE, MANUFACTURER'S MODEL NO. (U) VRX23SA/23C			2. MANUFACTURER'S NAME (U) Southern California Microwave			
3. RECEIVER INSTALLATION (U) Ground Control Station			4. RECEIVER TYPE (U) Dual Conversion Superheterodyne			
5. TUNING RANGE (U) 2200 MHz - 2399 MHz			6. METHOD OF TUNING (U) Synthesizer			
7. RF CHANNELING CAPABILITY (U) 2200 MHz, 1 MHz Increments			8. EMISSION DESIGNATORS (U) 18M0F8W			
9. FREQUENCY TOLERANCE (U) 30 ppm			11. RF SELECTIVITY <input type="checkbox"/> CALCULATED <input checked="" type="checkbox"/> MEASURED			
10. IF SELECTIVITY			a. -3 dB (U) 700 MHz			
	1st (U)	2nd (U)	3rd (U)	b. -20 dB (U) 1000 MHz		
a. -3 dB	40 MHz	22 MHz	NA	c. -60 dB (U) 2000 MHz		
b. -20 dB	50 MHz	24 MHz	NA	d. Preselection Type (U) 9-pole LC Bandpass		
c. -60 dB	60 MHz	27 MHz	NA	13. MAXIMUM POST DETECTION FREQUENCY (U) 7.5 MHz		
12. IF FREQUENCY			14. MINIMUM POST DETECTION FREQUENCY (U) NA			
a. 1st (U) 400 MHz			16. MAXIMUM BIT RATE (U) NA			
b. 2nd (U) 70 MHz			17. SENSITIVITY			
c. 3rd (U) NA			a. SENSITIVITY (U) - 100 dBm			
15. OSCILLATOR TUNED		1st (U)	2nd (U)	3rd (U)	b. CRITERIA (U) 12 SNR	
a. ABOVE TUNED FREQUENCY					c. NOISE FIG (U) 6 dB	
b. BELOW TUNED FREQUENCY		X	X		d. NOISE TEMP (U) NA	
c. EITHER ABOVE OR BELOW THE FREQUENCY					20. SPURIOUS REJECTION (U) 60 dB	
18. DE-EMPHASIS (U) <input checked="" type="checkbox"/> a. YES <input type="checkbox"/> b. NO			21. REMARKS (U) 1. Receive Video/Data from Mavrick UAV Transmitter.			
19. IMAGE REJECTION (U) 60 dB						
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ANTENNA DATA OVERFLOW PAGE

2. NOMENCLATURE, MANUFACTURER'S MODEL NO. (U) INSTRUMENTATION ANTENNA

4. FREQUENCY RANGE

8. GAIN

9. BEAMWIDTH

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ANTENNA EQUIPMENT CHARACTERISTICS	
1. (U) <input type="checkbox"/> a. TRANSMITTING <input checked="" type="checkbox"/> b. RECEIVING <input type="checkbox"/> c. TRANSMITTING AND RECEIVING	
2. NOMENCLATURE, MANUFACTURER'S MODEL NO. (U) SCI 3000-8 (AUTO-TRACK) ANTENNA	3. MANUFACTURER'S NAME (U) SCIENTIFIC ATLANTA, INC
4. FREQUENCY RANGE (U) 2200 MHz - 2300 MHz	5. TYPE (U) Parabolic Reflector (8 FT)
6. POLARIZATION (U) Right/Left-Hand Circular	7. SCAN CHARACTERISTICS
8. GAIN	a. TYPE (U) AUTO-TRACKING
a. MAIN BEAM (U) 27.6 dBi	b. VERTICAL SCAN (U) MECHANICAL
b. 1st MAJOR SIDE LOBE (U) 13.6 dBi @ 16 deg	(1) Max Elev (U) 90 deg
9. BEAMWIDTH	(2) Min Elev (U) -4 deg
a. HORIZONTAL (U) 3 deg	(3) Scan Rate (U) 30 DEG/SEC
b. VERTICAL (U) 3 deg	c. HORIZONTAL SCAN (U) MECHANICAL
10. REMARKS (U)	(1) Sector Scanned (U) 0 -360 DEGREE
	(2) Scan Rate (U) 30 DEG/SECOND
	d. SECTOR BLANKING (U) <input type="checkbox"/> (1) YES <input type="checkbox"/> (2) NO
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APPLICATION FOR SPECTRUM REVIEW		CLASSIFICATION UNCLASSIFIED	PAGE 10
NTIA GENERAL INFORMATION			
1. APPLICATION TITLE (U) SOUTHERN CALIFORNIA MICROWAVE (SCM) MODEL TTX135-6, TTX13S-10A VTX13S-10A/2SC (See Remarks)			
2. SYSTEM NOMENCLATURE (U) RECEIVERS TTX13S-10A, VTX13S-10A/2SC TRANSMITTERS AND See Data Overflow Page			
3. STAGE OF ALLOCATION (U) <input type="checkbox"/> a. STAGE 1 CONCEPTUAL <input type="checkbox"/> b. STAGE 2 EXPERIMENTAL <input checked="" type="checkbox"/> c. STAGE 3 DEVELOPMENTAL <input type="checkbox"/> d. STAGE 4 OPERATIONAL			
4. FREQUENCY REQUIREMENTS a. FREQUENCY(IES) (U) 2200 MHz - 2300 MHz b. EMISSION DESIGNATORS (U) 6M00F9D			
5. PURPOSE OF SYSTEM, OPERATIONAL AND SYSTEM CONCEPTS (WARTIME USE) <input type="checkbox"/> a. YES <input type="checkbox"/> b. NO (U) TO PROVIDE TELEMETRY DATA CAPABILITY FOR REAL TIME, FLIGHT TEST MONITORING BY GROUND PERSONNEL			
6. INFORMATION TRANSFER REQUIREMENTS (U) PCM-FM AND FM-FM DATA TRANSFER OF FLIGHT PARAMETERS AND VOICE FROM TEST A/C TO (SEE REMARKS)			
7. ESTIMATED INITIAL COST OF THE SYSTEM (U) \$31,000 (6 TRANSMITTERS, 2 RECEIVERS)			
8. TARGET DATE FOR			
a. APPLICATION APPROVAL (U) ASAP		b. SYSTEM ACTIVATION (U) 04-00-86	c. SYSTEM TERMINATION (U) 12-00-86
9. SYSTEM RELATIONSHIP AND ESSENTIALITY (U) THIS SYSTEM, AFTER FOREIGN MILITARY SALES, WILL BE ESSENTIAL TO AIRCRAFT TESTING AND FLIGHT SAFETY. IT WILL INTERFACE WITH AIRBORNE DATA ACQUISITION SYSTEMS AND GROUND STATION PROCESSING SYSTEMS.			
10. REPLACEMENT INFORMATION (U) NONE			
11. RELATED ANALYSIS AND/OR TEST DATA (U) NONE			
12. NUMBER OF MOBILE UNITS (U) NAvail			
13. GEOGRAPHICAL AREA FOR			
a. STAGE 2 (U) NA			
b. STAGE 3 (U) 250 MI RADIUS: FT WORTH, TX, EDWARDS AFB, CA, (SEE REMARKS)			
c. STAGE 4 (U) *			
14. LINE DIAGRAM (U) See Page(s) 1		15. SPACE SYSTEMS (U) See Page(s) NA	
16. TYPE OF SERVICE(S) FOR STAGE 4 (U) NA		17. STATION CLASS(ES) FOR STAGE 4 (U) XT	
18. REMARKS (U) Item 1: THE TTX13S-10A TRANSMITTER IS ELECTICALLY IDENTICAL TO THE TTX135-6 TRANSMITTER. Item 6: GROUND STATION. PCM DATA RATES WILL BE BETWEEN 128 AND 512 KBPS Item 9: THIS EQUIPMENT IS PART OF FOREIGN MILITARY SALES AND WILL NOT ENTER THE USAF INVENTORY.			
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NTIA REMARK OVERFLOW PAGE

Item 13b: EGLIN AFB, FL AND OTHER US TEST AND TRAINING RANGES TO BE DETERMINED.

Block 13C: - add "NAWCAD, Patuxent River, MD and NAWCWD, China Lake, CA."

Item 14: Contact your MILDEP representative or the JSC for a copy of the line diagram.

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2. SYSTEM NOMENCLATURE (U) MICRODYNE MODEL 1100-AR, SCM MODEL VRX23SA/2SC
SOUTHERN CALIFORNIA MICROWAVE MODEL TTX135-6,

4. FREQUENCY REQUIREMENTS

17. STATION CLASS(ES) FOR STAGE 4

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