APPLICANT:
Ericsson Radio System AB

FCC ID NO.
B5KKRC12103-31

EXHIBIT 10 - COVER SHEET

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FUNCTION OF ACTIVE CIRCUIT DEVICES

2.1033 (c)(10) Function of Active Circuit Devices

Function Block Digital Control (1911-ROZ 104 03)

D1	8XLINEDRIVER TS
D2	PLD
D4	ASIC TRISTAN, CONTROL Radio & Synthesizer
D6	DSP, PLL- & PCM-link Control
D8	SRAM 64k16
D9	FLASHROM 256k16
D100	DSP, Receiver
D101	SRAM 64k16
D102	ASIC ISOLET, RSSI Receiver, IfA- & IfB-Receiver
D104	DSP, Receiver
D201	FlipFlop P-edge Trigger
D202	Inverter
D203	D-type FlipFlop
D204	Inverter
D206	Inverter
D300	D-type FlipFlop
N1	Reset Circuit
N100	VCO 27.300 MHz
N200	ASIC ADDA, A/D-converter, D/A-converter
N203	Voltage Reference
N204	VCO 19.44 MHz
N300	Switch Regulator
N301	Switch Regulator
V3	Driver FlashROM VPP
V4	Driver FlashROM VPP
V6	LED Driver
V8	LED Driver
V200	Voltage Regulator
V201	Voltage Regulator
V202	Voltage Regulator
V203	Voltage Regulator
V204	Voltage Regulator
V205	Voltage Regulator

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FUNCTION OF ACTIVE CIRCUIT DEVICES

2.1033 (c)(10) Function of Active Circuit Devices

Function Block RXRF (1911-ROZ 104 11)

N600	ASIC ULLA, Downconverter
N610	Filter
N620	Filter
T610	Transformer
T611	Transformer
T620	Transformer
T621	Transformer
V650	Voltage Regulator
V651	Voltage Regulator

Function Block RXIF (1911-ROZ 104 05)

N801	ASIC FREJA, If Circuit
N810	BandPassFilter 62.94 MHz
N820	BandPassFilter 62.94 MHz
N811	BandPassFilter 455 kHz
N821	BandPassFilter 455 kHz
T800	Transformer
V800	Voltage Regulator
V801	Voltage Regulator

Function Block IFLO (1911-ROZ 104 06

N700	Voltage Regulator
N701	PLL Synthesizer
N702	PLL Synthesizer
N750	Voltage Regulator
V703	Amplifier
V707	Amplifier
V710	Voltage Regulator
V711	Voltage Regulator
V712	Voltage Regulator
V753	Amplifier
V757	Amplifier
V760	Voltage Regulator
V761	Voltage Regulator
V762	Voltage Regulator

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2.1033 (c)(10) Function of Active Circuit Devices

Function Block FG (1911-ROZ 104 13)

N903	PLL Synthesizer
N904	Oscillator 1787 – 1847 MHz
N905	Amplifier
N906	Direction Coupler
V923	Voltage Regulator
V924	Voltage Regulator
V925	Voltage Regulator

Function Block LX (1911-ROZ 104 14)

D401	Inverter
N401	Differential Amplifier 4pcs
N402	ASIC GLEIPNER, Linearization
N403	Band Pass Filter
N404	Amplifier
N407	Voltage Regulator
N408	Voltage Regulator
N409	Voltage Reference
N411	ASIC RIO, Serial/Parallel Interface
N415	Amplifier
N416	Voltage Regulator
T401	Transformer
T402	Transformer
T403	Transformer
T404	Transformer
V403	Driver
V411	VSWR Alarm Driver
V412	Voltage Regulator
V413	Voltage Regulator
V420	Power Setting Driver
V421	Power Setting Driver
V422	Power Setting Driver

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2.1033 (c)(10) Function of Active Circuit Devices

Function Block TXPA (1911-ROZ 104 15)

N502	Direction Coupler
N503	Direction Coupler
N510	Temperature Sensor
V501	1st Amplifier
V502	2nd Amplifier
V503	3rd Amplifier
V504	4th Amplifier
V505	4th Amplifier
V506	Bias V503
V507	Bias V502
V508	Bias V505
V509	Voltage - Compare
V510	Bias V503
V511	Bias V502
V512	Voltage – VSWR Compare
V513	Bias V504
V514	Bias V501
V516	Bias V501
V517	Voltage - Compare
V518	Bias V505
V519	Voltage – VSWR Compare
V520	VSWR Alarm
V584	Bias V504

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TUNE-UP PROCEDURE

2.1033 (c)(9) Tune-Up Procedure

All the necessary adjustments will be set in the factory, and should need no adjustments out in the field (pre-tuned coils are used, etc.). If the TRX is not able to maintain the requirements for power output, frequency stability, etc., the Switch will give an indication that the TRX needs service. If it is a great failure, the EMRPS will shut down the TRX without confirmation from the Switch.

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CIRCUIT AND DEVICE DESCRIPTIONS

2.1033 (c)(9,10) Power Tune-Up – Power Limiting

The EMRPS function allows the RF power output to be set from 0 dB to – 20 dB attenuation in 0.2 dB steps from the MSC (Mobile Switching Center). The power levels can be in the range from a minimum of 280 milliwatts to a maximum of 28 watts at the output of the TRX.
The EMRPS supervises the feedback loop (RFF) From the Coupler stage to Linearization by checking the baseband signals. If the power output changes, the EMRPS will adjust the gain in the exciter amplifier.
If some fault happens in the output power circuits, the EMRPS will compare the fault with prestored values and report the fault to the Switch via alarm codes in different levels. The highest alarm level is a serious fault and this alarm will get the EMRPS to shut down the output power stages without confirmation from the Switch.