

To Whom It May Concern:

SUBJECT: CLASS II PERMISSIVE CHANGE TO 7720PLUS

This is a request for a CLASS II Permissive Change for the Honeywell International Inc. 7720PLUS alarm transmitter. The 7720PLUS is certified by the FCC Grant of 3 / 7 /2000, **FCC ID CFS7720PLUS**.

The major component change is the Final PA (Q4). The reason for the change is that the manufacture of the original component has been discontinued.

No changes have been made to basic frequency determining and stabilizing circuitry, modulation rate or modulation scheme.

No Changes have been to the following original grant exhibits:

Schematic Page 2 of 2
External Photos
Internal Photo - Unit with cover removed
Internal Photo - Unit with shield out of base
FCC ID Label / Location
Operational Description
Block Diagram
Test Setups
Users Manual
Operational Description
Tuning Procedure

Please refer to the **INTERNAL PHOTO EXHIBIT - that shows Unit Without Shield Out of Base**. This shows the new Q4 with the associated component changes described below.

Detailed Description of Component Changes

Please refer to page 1 of the **Schematic Changes Exhibit**. The component changes are highlighted.

CIRCUIT SYMBOL	ORIGINAL VALUE	CLASS CHANGE VALUE	REASON FOR CHANGE
Q4	Phillips BLT94	NEC NE5511279	The BLT94 is no longer manufactured.
C40	7.5pf	6.8pf	Q4 input match
C41	1.5pf	deleted	Q4 input match
C35	3.3pf	7.5pf	Q4 output match
C39	3.0pf	1.0pf	Q4 output match
C30	1uf	deleted	replaced by R2
R2	-	1.2K ohm	Q4 gate bias bleed
R37	5.1 ohm	3.9K ohm	Q4 gate bias feed
R38	10K ohm	1.5K ohm	Q4 bias current range
R40	1.5K ohm	0 ohm	Q4 bias current range
Q1	mmbt3904	deleted	not needed for new Q4
R29 / R30	100K ohm	402K ohm	increase U16A gain for correct Q4 bias adjustment

PCB COPPER
CHANGES

Q4 BLT94 PCB
LAYOUT

Q4 NE5511279 PCB
LAYOUT

The NE5511279 has a
similar but smaller package

Please refer to page 2 of the **Schematic Changes Exhibit** for the filed schematic from which CLASS II permissive change equipments will be built.

Characteristics Affected by Changes

The changes made to the equipment involve final amplifier (Q4), Q4 biasing and Q4 tuning. The performance characteristics affected are: **RF Power Output**

FCC Part 2.1046

Spurious Emissions at the Antenna Terminals

FCC Part 2.1051

Field Strength of Spurious Radiation

FCC Part 2.1053

Class II Permissive Change Testing Results

RF Power Output FCC Parts 2.1046, 101.147(b): The RF output power was measured at the antenna terminals using the same method as for the original grant. No degradation in performance characteristic from the original grant data was measured.

Spurious Emissions at the Antenna Terminals FCC Parts 2.1051, 101.111(a)(6): The spectral response at the antenna terminals was measured from 30MHz to 10GHz using the same method as for the original grant. No degradation in performance characteristic from the original grant data was measured.

Field Strength of Spurious Radiation: Please refer to the **SPURIOUS EMISSIONS EXHIBIT**.

This testing was done at Underwriters Laboratories Inc. as noted in the **Test Equipment Exhibit**. The Field Strengths of Spurious Radiation were measured to be within FCC specification.

Conclusion: The changes to the HONEYWELL INTERNATIONAL INC. 7720PLUS have been presented.

Test results and data have been presented where applicable. From the results, a Class II Permissive Change for the FCC ID CFS7720PLUS as per FCC Part 2.1043(b)(2) is requested.

If you have any questions concerning this application, please contact:

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