	Doc name	Revision	Page	Creator
	Operational description Litecom	a.00	1 of 4	PRPU 2019-03-14
	Doc Type, Doc Description		Scale	Checked
	Operational description letter		N/A	
	LiteCom			Approved

## Operational description 3M Peltor Litecom

To Whom It May Concern


### 1.1 Statement

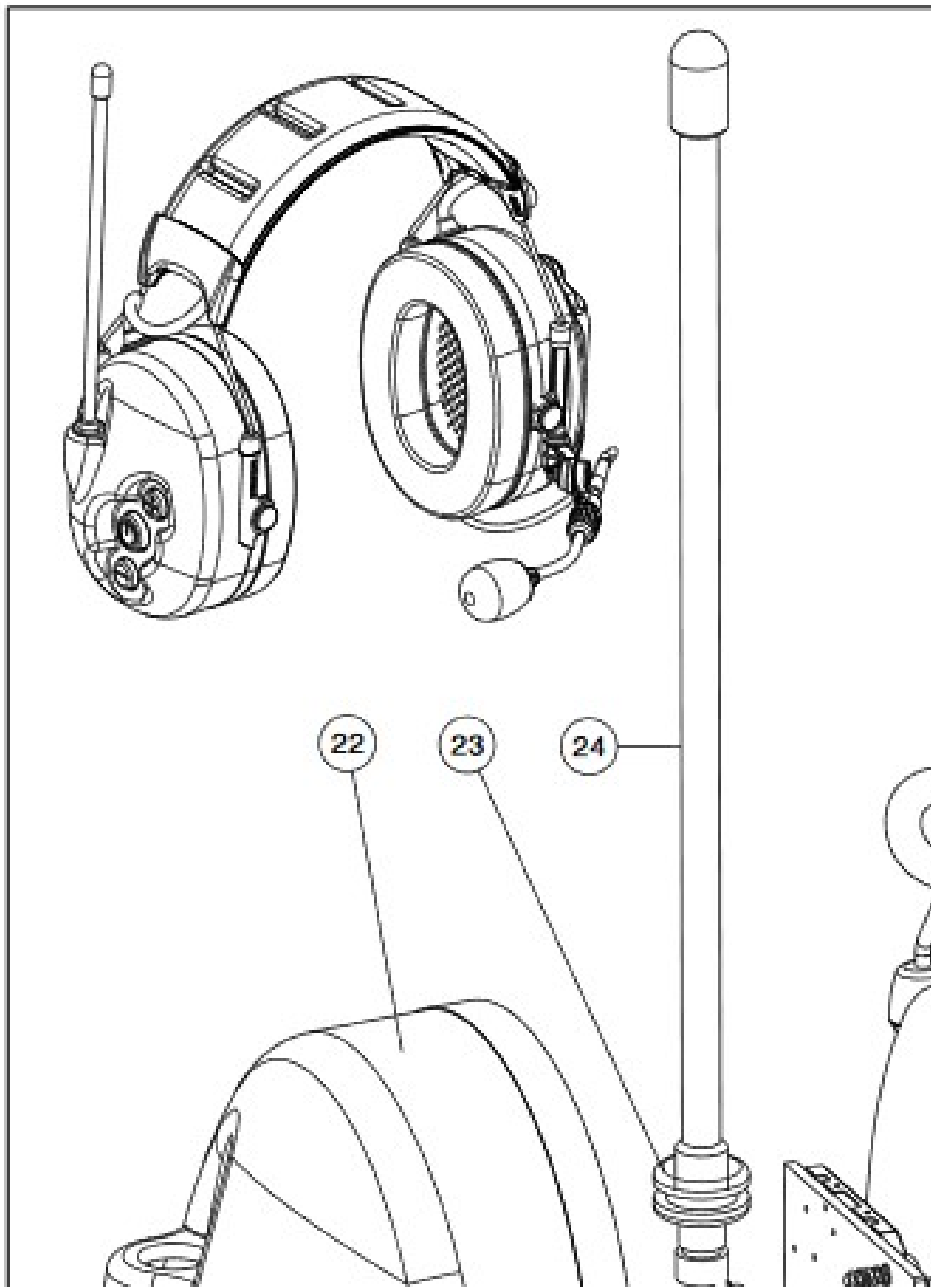
This is a refiling to move into the FRS band only away from the GMRS band as approved earlier fro this product

### 1.2 Theory of operation

The 3M Peltor Litecom is a hearing protector worn over the ear. It includes a half duplex Communication radio. The Litecom is working on the 462 and 467 MHz FRS band.  
The headset is using 2 AA Alkaline batteries.

### 1.3 Antenna


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The Litecom antenna can be seen in the picture above as the long long stick leaving the headset. The PCB itself works as a ground plane. Antenna gain 3.3 dBd.

## 1.4 Technical data

Type of Equipment:	Family Radio Service Device (FRS),
Frequency Range: FRS:	462.5500-462.7250 MHz; 467.5625-467.7125 MHz
GMRS:	462.5500-462.7250 MHz
Maximum Tune Up Tol.	1 dB
Antenna Information:	Integrated Antenna
Emission Designation:	7K10F3E

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Operation mode: Half duplex  
 Channels: Max 30  
 Channel separation: 12.5 kHz  
 Modulation: FM: 2.5 kHz  
 Microphone type: Electret (MT53)  
 Receiver sensibility: Typical-122 dBm  
 Output power: 150mW  
 Selective squelch: CTCSS (38 sub channels)  
 Range: Up to 3 km depending on conditions  
 Power supply: 2x AA alkaline (3,0 V) or NiMH (2,4 V )  
 Power consumption: Stand-by: <59 mA  
 Receiving: <70 mA  
 Transmission: <210 mA  
 Operating time: 20 hours  
 Operating temperature: -4°F to +131°F (-20°C to +55°C)  
 Storage temperature: -40°F to +131°F (-40°C to +55°C)

## (I) CTCSS (Continuous Tone Coded Squelch System)

1.	67.0	8.	88.5	15.	110.9	22.	141.3	29.
2.	71.9	9.	91.5	16.	114.8	23.	146.2	30.
3.	74.4	10.	94.8	17.	118.8	24.	151.4	31.
4.	77.0	11.	97.4	18.	123.0	25.	156.7	32.
5.	79.7	12.	100.0	19.	127.3	26.	162.2	33.