SARIS
CYCLING GROUP

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DATE: September 4, 2008

TO: Accreditation facility

FROM: Ed Watson

RE: Saris Class II Permissive change

REF: T8P-SL24TT1 | 6459A - SL24TT1

System level description of change:

The RF module design (printed circuit board and components) for all the following model # are identical; PowerTapSL2.4, Pro 300PT-T, PowerBeam and Computer +

Internally at Saris, The RF module design part number is 17709, design files 17709-SCH, 17709-PCB, 17709-BOM represents the schematic, gerber data files and Bill of Material for the RF module tested. The same RF module has always resided in both models and has not changed since the release in 2007.

Under the Class II Permissive change Saris would like to deploy reverse communication between the Model#: PowerTapSL2.4, Pro 300PT-T, PowerBeam and corresponding CPU or Computer. The Model#: PowerTapSL2.4, Pro 300PT-T, PowerBeam are still the primary transmitters and that periodicity sets the communication link to the receiver Model#: Computer + in the forward direction. The RF module has always had the ability to send data back through a "reverse" direction, but it was never utilized. The class II permissive change is to utilize this reverse channel feature.

To further explain the system level architecture; the RF link between the transmitter and receiver must be established first; once this forward RF link is established then the receiver can send data back to the transmitter, since both RF modules are identical transceivers, the reverse transmission always occurs just after the forward transmission; such that the transceivers are predetermined to change directions on the same RF frequency or carrier. As a result, the reverse transmission cannot occur until the forward RF link is established.

The additional frequency has been selected to add interoperability to other companies which is a growing trend in our industry. The second frequency (or channel) has a data format that follows industry standard ANT+sport and the original data format is a Saris custom. The two channels (two frequencies) are used to maintain the two data formats. Otherwise the high level system function is the same for each channel; each having reverse communication requirements in the protocol.

The new transmission allows the user interface device to control and configure the sensors in ways that were previously not possible.

Respectfully,

Ed Watson