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**Network Systems Organization**

Federal Communications Commission  
Equipment Approval Services  
P.O. Box 358315  
Pittsburgh, PA 15251-5315

Norman H. Nelson  
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**Re: FCC ID H9PLA24001AZL Ref # 15526**

Date: 10/12/00

Dear Reviewer,

In response to the following Email:

To: Norman Nwlson, Symbol Technologies, Inc.  
From: Steve Dayhoff  
sdayhoff@fcc.gov  
FCC Application Processing Branch

Re: FCC ID H9PLA24001AZL  
Applicant: Symbol Technologies Inc  
Correspondence Reference Number: 15526  
731 Confirmation Number: EA97670  
Date of Original E-Mail: 08/10/2000

1. The submitted MPE info had indicated duty factors of 60% and 32% for mobile and portable operating configurations, respectively, for the "Oniel" antenna to be added through this Class II filing. The duty factor must be source-based, as described in 2.1091 and 2.1093 of rules. Please provide supporting info to verify these duty factors qualify for source-based time averaging and explain/verify why different duty factors are applied for mobile and portable operations.

**Please see the proprietary exhibit on duty cycle uploaded to the FCC web site as a Operational Description attachment.**

2. Please provide the actual separation distance between the antenna and the user when the printer containing this transmitter is worn next to a person's body.

**The O'Neil antenna is a minimum of 2.2 cm away from the users body when clipped on the users belt. Attached is an updated [MPE exhibit](#).**

I hope these answers are satisfactory.

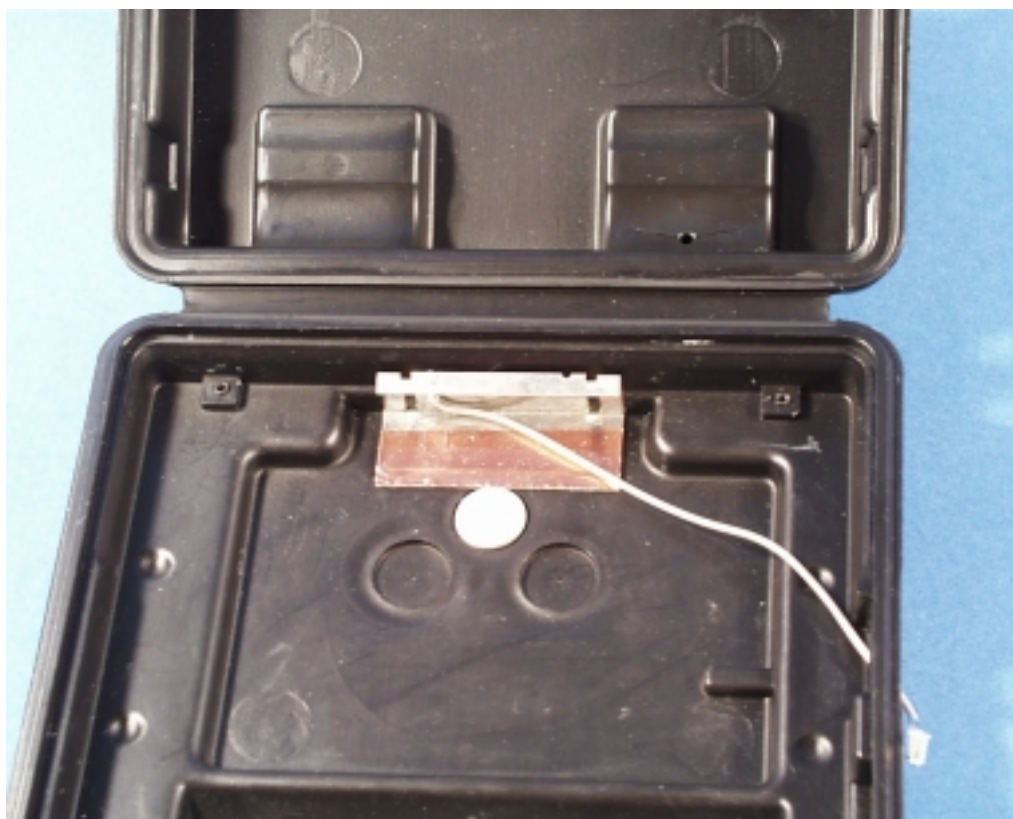
Respectfully,

Norman H. Nelson

**Oneil BFA / Oneil MMCX Antenna**

The **Oneil** antenna is 0 dBi omnidirectional in azimuth plane. It is available with either a MuRatta BFA or MMCX connector. It is mounted as an internal antenna on the O'Neil MicroFlash series of portable belt worn printers. In its use it could be as close as 2.2 cm of a users body. It is used in portable devices.

<i>Location</i>	Body worn
<i>Pattern</i>	Omni
<i>Type</i>	Slot
<i>Max Gain</i>	0 dBi
<i>Physical</i>	See attached dwg
<i>Cable</i>	MXYH75 or RG-178
<i>Symbol P/N</i>	50-21900-023 50-21900-031
<i>EIRP</i>	See Summary Tbl



Antenna Installation Photo



Device use Photograph.

The following text will be located in a conspicuous place in the section describing proper positioning and operation of the body worn device.

“Warning: Exposure to Radio Frequency radiation. To conform to FCC RF exposure requirements this device shall be used in accordance with the operating conditions and instructions listed in this manual.”

