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REPORT

**Magnetic Field Testing Performed at 7-Tesla on the
9L Water Mist Fire Extinguisher**

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This report pertains to magnetic field interaction testing conducted at 7-Tesla on the product from Strike First Fire Extinguishers, as shown below:

Product: 9L Water Mist Fire Extinguisher

IMPORTANT NOTE: This product is intended for use inside of the MRI environment (e.g., in the MR system room, close to the scanner). However, it is not intended for use directly inside of the MR system (e.g., inside of the bore of the scanner), itself. As such, the assessment of magnetic field interactions for this product specifically involved a qualitative evaluation of translational attraction and discharge functionality in relation to exposure to a 7-Tesla MR system. *This important information should be provided in the Instructions for Use or Product Manual for this product.*

MR system: A 7-Tesla (Terra, Siemens) active-shielded, scanner (**Figure 2**).

Test site: MRI Center, University of Southern California Hospital, 1500 San Pablo Street, Los Angeles, CA 90033

MAGNETIC FIELD INTERACTION

The test for magnetic field interaction for the 9L Water Mist Fire Extinguisher was conducted with regard to exposure to a 7-Tesla MR system.

Prior to exposure to the MRI environment, this product was thoroughly evaluated using a powerful hand-held magnet to determine the presence of ferromagnetism for any metallic component or part.

For the formal assessment of magnetic field interactions, the 9L Water Mist Fire Extinguisher was assessed by applying a rope securely around the device. The end of the rope was tethered a suitable distance from the 7-Tesla MR system to prevent this product from becoming a projectile if substantial magnetic field interactions were present.

The product was slowly moved towards the MR system in a methodical, incremental manner. Accordingly, the product was placed as close as possible relative to the bore of the 7-Tesla MR system (i.e., at a position that would be considered worst case for the intended use of this product).

A small amount of “slack” was intentionally allowed in the rope so that any magnetic field interaction could be readily detected. Accordingly, the product was brought up to the entrance of the bore of the 7-Tesla MR system, which is essentially considered to be a “worst-case” position for a device used externally to the MR system.

The following qualitative scale was applied to the results:

0, no magnetic field interactions

+1, mild magnetic field interactions, the device slowly changed orientation or moved relative to the magnetic field

+2, moderate magnetic field interactions, the device moved gradually relative to the magnetic field and moved into the bore of the MR system

+3, strong magnetic field interactions, the device showed rapid and forceful movement towards the magnetic field and moved into the bore of the MR system

+4, very strong magnetic field interactions, the device showed very rapid and very forceful movement relative to the magnetic field and moved into the bore of the MR system

RESULTS AND DISCUSSION

Tables 1 summarizes the results of the tests performed to determine magnetic field interactions for the 9L Water Mist Fire Extinguisher product.

Table 1. Product tested at 7-Tesla with results.

Product	Magnetic Field Results
9L Water Mist Fire Extinguisher)	0

Thus, the evaluation demonstrated that the 9L Water Mist Fire Extinguisher is MR conditional at 7-Tesla or less.

MRI LABELING BASED ON THE TEST RESULTS (Note: use verbatim)

MRI Information



MR Conditional

The 9L Water Mist Fire Extinguisher is MR Conditional. Testing demonstrated that this product can be used in the MRI environment according to the following conditions:

-Static magnetic field of 7-Tesla or less

IMPORTANT NOTE: This product is intended for use inside of the MRI environment (e.g., in the MR system room, close to the scanner). However, it should not be utilized directly inside of the MR system (e.g., inside of the bore of the scanner) while the scanner is operating.

NOTE: If you plan to use this information for labeling or promotion of this product for use in the MRI environment, please provide me with the content to review in order to ensure proper presentation of the information.

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FIGURE 1. The 7-Tesla MR system used for MRI testing.



FIGURE 2. Testing the 9L Water Mist Fire Extinguisher during exposure to a 7-Tesla MR system. Note the lack of magnetic field translational attraction for this product while in front of the opening of the bore of the 7-Tesla MR system (i.e., a worst-case position in relation to the 7-Tesla MR system), as evidenced by the slack in the rope that was attached to this device.

