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E.S. COFFIN ENGINEERING & SURVEYING, INC.

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June 25, 2014

Ms. Tammy Munson
Inspections Division
City of Portland
389 Congress Street
Portland, Maine

**Subject: Fire Department Requirements**
**Get Air Portland**
**921 Riverside Street**
**Portland, Maine**

Dear Ms. Munson:

Please find below the additional information needed for the Fire Department Requirements:

## APPLICANT

Jacob Goodell
Get Air Portland
4074S 1900W Suite 100
Roy, Utah 84067
PH. (801) 906-9386
jake@getairsports.com

## DESIGN PROFESSIONAL

Benjamin Murray, P.E.
E.S. Coffin Engineering & Surveying, Inc.
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## PROJECT NARRATIVE

Get Air Sports (Lessor) is a national franchise that is looking to renovate the existing warehouse/office space at 921 Riverside Street into Maine's first indoor trampoline park. The existing building is approximately 25,087 square feet with 20,000 in the warehouse portion and 5,000 in the office portion. With the office portion of the building proposed to be used for party rooms, bathrooms, and customer service; the remainder of the building will be used for the multiple trampolines, jumps and foam pits. The trampoline fixtures will be steel framed structures of various designs and difficulties at a minimum elevation off from the existing floor of 3'-0". This will require the formation of wood framed interior platforms around the different fixtures for access. Proposed hours of operation vary from facility to

facility, but are expected to be from 10:00 AM to 12:00 AM. Minimum exterior renovations are proposed including upgrading existing lighting to full cut off shields and showing the required number of parking spaces required.

## LIFE SAFETY SUMMARY

The building usage will be classified as Assembly under the NFPA 101 Life Safety Code. The existing building is fully sprinkled with a NFPA 13 system and will be modified as needed for the proposed use and renovation. The concealed space under the platforms will be enclosed, inaccessible and not used for storage. We have verified with Gerald Leach from the State Fire Marshal's Office that the space does not need to be sprinkled per NFPA 13 Section 8.15.1.2.11, which is an exemption for concealed space framed with either fire retardant wood framing or non-combustible. All of the platform, ramp, wall and floor sheathing will be comprised of fire retardant wood sheathing supported by cold form steel studs.

The platforms will be enclosed with fire rated gypsum sheathing at the perimeter. The building has an ample number of exits that are remotely located from one another. However, it is difficult to equate the occupancy loading charts to this facility. The occupant load for each area is restricted to the number of people that Get Air allows on each piece of equipment. This is explained further in the attached Traffic Report. The nearest occupant load per NFPA factor would be an exercise room with equipment of 1 person per 50 square feet. For this 20,000 square foot facility, that would equate to 400 people. As described on the Traffic Report, Get Air proposes a total of approximately 165 people with a total of 189 based on the parking spaces required. The egress door capacity for the trampoline facility is 540 people.

Under the 2009 International Building Code, the proposed use will be classified as Assembly (A-2). Given that the building will contain wood sheathing, the construction type will go from a Type II to a Type V. The base allowable building area per story is 6,000 square feet. With the building being sprinkled and having open space on both the north and east walls, the allowable building area can be increased to over 25,000 square feet. See the equation below:

Allowable Building Area = {6,000 + [6,000[(311/671)-.25] (30/30)] + (6,000) (3)} = **25,281 SF**

Therefore, based on this life safety assessment, we feel that the building meets the requirements of the NFPA 101 and IBC 2009 code.

If you have any questions, please feel free to call me at 623-9475.

Sincerely,

Benjamin Murray, P.E.
Project Engineer
E.S. Coffin Engineering & Surveying, Inc.

STATE OF MAINE
BENJAMIN E. MURRAY
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LICENSED PROFESSIONAL ENGINEER