**Governor's Task Force on K-12 Science, Technology, Engineering and Math (STEM) Education**

**ADDENDUM B: NHMSA DISCUSSION MARCH 23**

BRIEFING DOCUMENT FOR STEM TF FOR NHMSA DISCUSSION[1]

Problem that the NHMSA working group is trying to solve: The pipeline of NH high school students on track to enter STEM bachelor degree programs is insufficient to support current and future growth of NH STEM industry.

Data[2] supporting the problem that the NHMSA Working Group is trying to solve:

- More than half of STEM job openings are in occupations requiring at least a bachelor's degree.
- While New Hampshire consistently ranks among the top 10 states in the percentage of bachelors' degrees, the state ranks 32nd in the percentage of bachelor's degree graduates in STEM.
- New Hampshire ranks 49th in the percentage of STEM credentials awarded per STEM employee.

Nonnegotiables for NHMSA:

- NHMSA, regardless of the form it takes, must prepare high school students for success in earning a STEM bachelor's degree or higher.
- NHMSA, regardless of the form it takes, should serve students from throughout NH.

Background of NH STEM Task Force Working Groups:

- The NH Math & Science Academy (NHMSA) Working Group is responsible for determining the feasibility of creating this free, public, STEM-intensive college preparatory high school (or network of high schools) for NH residents.
- Anther Task Force working group is addressing the need for new or enhanced certificate programs at Career and Technical Education schools that may lead to the community college system. So the NHMSA working group need not address the STEM pipeline to STEM certificate or associate degrees.
- Another Task Force working group is addressing the need for increased participation in STEM challenges, competitions, and capstones, so the NHMSA working group need not address that.

Assumption for the April 25th NHMSA Design Day: Increasing the pipeline of NH students on track to earn STEM bachelor's degrees should be a joint effort between the NH Department of Education, NH public secondary schools, NH's public and private colleges and universities, and NH STEM industry partners.

[1] Feedback after March 9th Meeting from NHMSA Working Group (Susan, Tom, & Martha) to Sandbox Team (Michelle & Patrick)

[2] Source of Data: "Pathways to STEM Excellence: Inspiring Student, Empowering Teachers, and Raising Standards" report submitted to Governor Hassan in January 2015 by the NH STEM Task Force. See http://governor.nh.gov/commissions-task-forces/stem/documents/stem-01-2015-k-12.pdf

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Nonassumptions for the April 25th NHMSA Design Day: No assumptions have been made concerning what this school should look like.

Guiding Questions for TF discussion March 23

1. Does anyone want to offer a compelling argument for a potential "nonnegotiable" for the composition of NHMSA's student body? That is, is there a compelling reason to emphasize one demographic in terms of academic, economic, or other distinguishing features? If so, what are the potential benefits and challenges of this selection? Please note that we are interested in keeping the number of nonnegotiables to a minimum. However, if there is a compelling reason to add an additional nonnegotiable, then we need to articulate that now.

2. What is on your mind about NHMSA that you believe has not been addressed? Note that much the work lies ahead of us. However, if you have a question or concern about the path we are charting, please bring it up now.