

## MEMORANDUM

**TO:** Board of Directors, Massachusetts School Building Authority  
**FROM:** John K. McCarthy  
**DATE:** May 30, 2012  
**RE:** Recommendations for Invitation to Feasibility Study:  
Science Lab Initiative

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At the September 2011 MSBA Board of Directors meeting, MSBA staff proposed that the MSBA utilize the remaining allocation of Qualified School Construction Bond proceeds to establish a \$60 million Science Lab Initiative (“Initiative”). This Initiative gives districts the opportunity to repair, renovate, and/or construct science labs in otherwise sound high school facilities by focusing capital spending on such projects in accordance with MSBA policies, standards, guidelines, and prototypical designs. In addition, the Initiative provides the MSBA with an opportunity to partner with the Department of Elementary and Secondary Education to evaluate and address deficient science laboratory space at high schools throughout Massachusetts, aiding districts in meeting their curriculum needs.

In establishing guidelines for participation in the Initiative, MSBA staff determined that any district with a high school suitable for delivering a sound educational program but lacking modernized science lab space would be eligible to apply for the Initiative. In addition, within its sole discretion, the MSBA may allow the eligible scope of an approved Initiative project to include items or building systems that are unrelated to the repair, renovation, and/or construction of science labs in the same project, such as boilers, roofs, and windows.

Districts selected to participate in the Initiative will have to comply with the MSBA’s Science Lab Guidelines, which help establish flexible and modernized teaching and learning laboratory spaces. These Guidelines were established by the MSBA’s Science Lab Task Force, which included MSBA Board members and staff, Department of Elementary and Secondary Education staff, science educators, science and technology consultants, science lab safety consultants, architects, and construction management consultants. Together, the Initiative and the Guidelines further recognize the importance of educational spaces that are curriculum driven, accommodate all science disciplines through flexibility, and provide a safe learning environment for students.

To assist with the development of the qualifications and application and review process for the Initiative, MSBA formed a Science Lab Advisory Committee (“Committee”), composed of an MSBA Board member, representatives from the Department of Elementary and Secondary Education, and MSBA staff. On January 11, 2012, the

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MSBA received 13 conforming Statements of Interest (“SOI”) for the Initiative as listed in Attachment A of this memo. MSBA staff first conducted an initial assessment of each SOI to determine the eligibility of the facility relative to the Initiative guidelines. This assessment included a review of the science lab certification requirements, a comparison of previously-filed SOIs for the same project, existing and preliminary projections for enrollment as compared to MSBA area guidelines for a comparable population, MSBA Needs Survey data, and statements in the SOI regarding the overall condition and maintenance of the facility. Staff also noted whether the district adhered to current standards for chemical and material storage and proper disposal of unnecessary hazardous stored chemicals. After this initial assessment, MSBA staff summarized the information for review by the full Committee. The Committee and MSBA staff then visited each school facility and conducted interviews with key personnel to further understand the district’s educational program and the challenges and limitations it faces in delivering the program due to facility deficiencies.

As this Initiative requires that all projects be substantially complete by September 30, 2013, it is critical that each district invited into the Initiative be able to obtain funding and immediately begin working with consultants to scope and estimate the proposed project. Therefore, concurrent with the site visits, MSBA staff issued two Requests for Services for owner’s project managers and architectural design firms. It is anticipated that MSBA staff will assign these firms to districts by a random selection process immediately following approval by the Board of Directors of the Invitations to Feasibility Study.

The Committee has visited each facility and has reviewed the submitted materials. The Committee is still in the process of examining issues related to overcrowding and building conditions that were identified in Newton, Revere, and Springfield. These issues will require substantial additional examination and discussion, and the MSBA anticipates concluding its review of these three districts for discussion at the Board’s July meeting. Based on its review, the Committee recommends that the Board approve the following 10 districts for an Invitation to Feasibility Study, subject to certain conditions:

| District                                   | School  | DESE Current Enrollment |
|--|---|-------------------------|
| Blackstone Valley Regional School District | Blackstone Valley Regional Vocational Technical High School | 1,147                   |
| Gardner                                    | Gardner High School   | 636                     |
| Holyoke                                    | William J. Dean Vocational Technical High School            | 573                     |
| Medford                                    | Medford High School   | 1,227                   |

|                                     |  |       |
|-------------------------------------|--|-------|
| Melrose                             | Melrose High School                                  | 1,026 |
| Nashoba Regional School District    | Nashoba Regional High School                         | 1,016 |
| North Attleborough                  | North Attleborough High School                       | 1,209 |
| Saugus                              | Saugus High School                                   | 709   |
| Swansea                             | Joseph Case High School                              | 587   |
| Tri-County Regional School District | Tri-County Regional Vocational Technical High School | 1,006 |

The Board's approval of the above 10 districts to receive an Invitation to Feasibility Study shall be subject to the following conditions:

- 1) As part of its schematic design submittal to the MSBA for project approval, each District shall submit a narrative describing its plan for staff professional development that will support opportunities for the development and implementation of more robust science course offerings and curricula and allow the District to take full advantage of its proposed science laboratories.
- 2) Improvement of chemical management and removal of excess stored items:  
Each District shall perform a thorough review and assessment of items stored within science department spaces to ensure that excess or outdated materials not being used in the current curricula and/or inappropriate for long-term storage are not unnecessarily cluttering the area and reducing the space available for program delivery.
- 3) Each District shall ensure that areas designated as chemical storage and preparation areas are being used for their intended purpose and not for offices, lunch areas, or other inappropriate uses.
- 4) Each District shall complete the implementation of all items included in the MSBA's Chemical Management Certification, which the MSBA provided to the District by letter dated February 23, 2012.
- 5) Each District shall comply with Massachusetts Stretch Energy Code requirements for any scope of work that includes roof, windows, and/or boiler replacement.
- 6) Each District shall comply with all applicable Massachusetts public bidding and procurement laws including, but not limited to, M.G.L. Chapter 149 and 149A, and shall be prepared to provide proof of compliance with all public bidding and procurement laws to the MSBA upon request.

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7) Each District shall comply with the MSBA Science Lab Guidelines except as may otherwise be authorized in writing by the MSBA.

MSBA staff and the Science Lab Advisory Committee are pleased to recommend these 10 districts for participation in the Science Lab Initiative, which will target funding toward the improvement of these facilities to support the delivery of science education for more than 9,000 students.