JUSTIFICATION FOR SOLE SOURCE PROCUREMENT (Complete for PR’s >$25,000)  
*(To be completed by Requester or SOTR)*

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| Issued By: Roger Flood | PR No: 294196 | Estimated Cost: 110,000 | Date: 8/18/2010 |
| Vendor Name and Address: All Flex, Inc.  1705 Cannon Lane Northfield, MN 55057-3605 | | | |
| Description of item or services/work to be acquired: **Fabrication of 2-micron copper-clad polyimide panels to be used in the Hall D Forward Detector** | | | |
| Was Procurement consulted? Yes  No , If yes- name of Procurement Representative  Was JLab’s Small Business Office consulted (Danny Lloyd ext 7121, [Lloyd@jlab.org](mailto:Lloyd@jlab.org))? Yes  No | | | |

1. ***Identify the reason(s) for the requested sole source procurement:***

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|  |  | Unique capability, expertise, facilities, proprietary data, or equipment that no other source can provide. |
|  |  | Compatibility with existing equipment and/or standardization of parts. |
|  |  | Follow-on work for continued development or enhancement of a specialized system or equipment or services necessary to avoid substantial duplication of costs that would not be recoverable, and/or significant, unacceptable delays in fulfilling program needs. |
|  |  | An unusual or compelling urgency that would cause an adverse safety, environmental, or programmatic impact of such a nature and magnitude that a sole source justification is merited. |
|  |  | To establish or maintain a source for industrial mobilization or engineering, development, or research capability. |
|  |  | Authorized or required by statute or International agreement. |
|  |  | Source is acknowledged and demonstrated to be the leader in its field of expertise (normally only appropriate for R&D work). |
|  |  | National Security or public interest reasons. |
|  |  | Unique bonding, insurance or indemnification requirements. (Appropriate only if the Subcontractor is a Large Business.) |
|  |  | Services of an expert or neutral person for any current or anticipated litigation or dispute. |

1. ***Explain why the identified subcontractor is the only qualified source, based on the reason(s) marked above, including any unique capabilities, expertise, processes, or facilities:***

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| These panels are made of 2-micron thick copper with a 1 mil thick polyimide backing and are 19 inches wide by 60 inches long. They require a facility with both the experience and fabrication capabilities to manufacture these panels. Each panel must be handled with extreme care during each step of the fabrication process as well during the packaging and shipment to JLAB.  An on-site inspection of the All Flex facilities was made prior to award of the prototype contract to assure us that the vendor had the capabilities needed. All Flex was chosen as the only vendor in the US with the capability to provide JLAB with prototype panels used to evaluate the design feasibility.  If additional vendors can be found, additional costs will be incurred in order to evaluate and qualify these potential vendors.  All Flex has provided NASA with extended-length (several feet) continuous flexible circuits.  The decision to utilize All Flex for the production phase was based on the above points as well as efforts, described below, put forth in attempting to find suitable vendors for the prototype phase. |

1. ***Describe market research efforts to locate other sources (Discuss other vendors, models, etc. that were evaluated, rejected, and why?  Provide brand name, model, vendor name and contact, date contacted.)***

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| Throughout the fall of 2008 and winter of 2009 Brian Kross and I searched the internet for US vendors that might be capable of fabricating the prototype panels. A number of printed circuit board vendors were contacted. None were capable of fabricating panels of this size. |

1. ***Follow-On Work:***

Is there potential for follow-on work? Yes  No  If yes, can the follow-on work be competed?   
 Yes  No  (If follow-on work cannot be competed explain why below)

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| We anticipate having a sufficient number of spare panels to last for the life of the detector. |