**Critical Decision Summary Document**

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| **Site:** | Brookhaven National Laboratory | **FPD:** | name: Lloyd Nelson  phone: 631-344-5225  e-mail: lnelson@bnl.gov |
| **Project Title:** | **Heavy Flavor Tracker MIE-01VB** |
| **Near Term Total Project Cost** | **$15.2M** | **Life Cycle Cost** | **$17.8M** |

**Site Level Funding Profile**

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| **Funding Scenario** | **FY  2009** | **FY 2010** | **FY 2011** | **FY**  **2012** | **FY 2013** | **FY 2014** |
|  |  | $3.0 | $3.4 | $5.2 | $5.1 | $1.1 |

**Critical Decision 2/3 – Approve Performance Baseline**

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| CD-2/3 Approved | *Check only when CD-2/3 is approved.* | **Notes**  **All requirements for CD 2/3 shall be in accordance with DOE Order 413.3B** |
| **Acquisition Executive Authority**  Secretary  Under Secretary  Program Secretarial Officer  Program Manager/Field Manager (SES)  Date Received: | | Approval Authority:  Gillo, Jehanne E. Director  Phone: 301-903-1455  Route Symbol: SC-26.2  Building: GTN  Location: GERMANTOWN MD  Routing: SC-26.2 Organization: Facilities and Project Management Division  Office of Nuclear Physics, Office of Science  Title: Director, Facility & Project Management Division  Internet Address: [jehanne.simon-gillo@science.doe.gov](mailto:jehanne.simon-gillo@science.doe.gov) |
| **Critical Decision Approval**  Secretary  Under Secretary  Program Secretarial Officer  Program Manager/Field Manager (SES)  Date Received: | | Approval Authority:  Jehanne Gillo, Director  Facilities and Project Management Division  Office of Nuclear Physics, Office of Science |
| **CD – 2/3 REQUIREMENTS** | | |
| **Performance**  **Management Baseline** | *Completed*  *N/A*  *Date to Complete:* | CD 2/3 ESAAB date is tentatively scheduled for March 31, 2011. All ESAAB Documents need to be submitted 2 weeks (March 17, 2011) prior to ESAAB. Final BNL review prior to submittal starts March 4. (Includes final Risk Management Plan) |
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| **Final Project Execution Plan** | *Completed*  *N/A*  *Date to Complete* | Final PEP shall be revised in accordance with recommended format from November 16 D. Lehman presentation. |
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| **Earned Value Management System** | *Completed*  *N/A*  *Date to Complete* | BSA/BNL has a DOE approved EVMS. HFT is below $20M threshold requirement. |
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| **Performance Baseline Validation IPR** | *Completed*  *N/A*  *Date to Complete* | HFT is below $20M threshold requirement. |
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| **Performance Baseline Validation EIR** | *Completed*  *N/A*  *Date to Complete* | HFT is below $20M threshold requirement. |
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| **Independent Cost Estimate or Review** | *Completed*  *N/A*  *Date to Complete* | HFT is below $20M threshold requirement. |
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| **Quality Assurance Program** | *Completed*  *N/A*  *Date to Complete* | BSA/BNL has a DOE approved QAP IAW DOE O 414.1C. Reference Memo stating QAP iaw with SBMS is added to HFT website. |
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| **Preliminary Design** | *Completed*  *N/A*  *Date to Complete* | Formal Design Review supports performance baseline for all subprojects and is added to HFT website. |
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| **Update Project Data Sheet** | *Completed*  *N/A*  *Date to Complete* | HFT is an MIE Project |
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| **Design Review** | *Completed*  *N/A*  *Date to Complete* | A design review was performed for the Conceptual Design Report. Additional reviews will be performed as part of CD-2/3. |
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| **Safety Design Strategy** | *Completed*  *N/A*  *Date to Complete* | Not a HazCat 1, 2 or 3 nuclear facility |
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| **Hazard Analysis Report** | *Completed*  *N/A*  *Date to Complete* | The final Hazard Analysis will completed at CD-4, however an updated Preliminary Hazard Analysis Report is required if any new or significant changes are applicable. If no changes a memo stating a review has been completed shall be sufficient and added to HFT website. |
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| **Update Preliminary Security Vulnerability Assessment Report** | *Completed*  *N/A*  *Date to Complete* | 9/29/09 Report evaluated the HFT Project and determined no changes to the SVAR is required. If no changes a memo stating a review has been completed shall be sufficient and added to website. |
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| **Preliminary Safety Validation Report** | *Completed*  *N/A*  *Date to Complete* | Not a HazCat 1, 2 or 3 nuclear facility |
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| **Preliminary Sustainable Environmental Stewardship** | *Completed*  *N/A*  *Date to Complete* | No buildings/facilities involved |
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| **National Environmental Policy Act Documentation** | *Completed*  *N/A*  *Date to Complete:* | A copy of all NEPA documentation is added to HFT website. |
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| **Preliminary Documented Safety Analysis Report** | *Completed*  *N/A*  *Date to Complete* | Not a HazCat 1, 2 or 3 nuclear facility |
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| **Safety Evaluation Report** | *Completed*  *N/A*  *Date to Complete* | Not a HazCat 1, 2 or 3 nuclear facility |
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| **Construction Project Safety and Health Plan** | *Completed*  *N/A*  *Date to Complete* | Project Safety Health Plan is submitted to DOE for approval. |
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