**Critical Decision Summary Document**

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| **Site:** | Brookhaven National Laboratory | **FPD:** | name: Lloyd Nelson phone: 631-344-5225e-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** | **FY2010** | **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[x]  Program Manager/Field Manager (SES)Date Received:       |  Approval Authority:Gillo, Jehanne E. DirectorPhone: 301-903-1455 Route Symbol: SC-26.2 Building: GTN Location: GERMANTOWN MD Routing: SC-26.2Organization: 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 |
| **Critical Decision Approval**[ ]  Secretary[ ]  Under Secretary[ ]  Program Secretarial Officer[x]  Program Manager/Field Manager (SES)Date Received:       | Approval Authority:Jehanne Gillo, DirectorFacilities and Project Management DivisionOffice 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* [x]  *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* [x]  *N/A**Date to Complete* | HFT is below $20M threshold requirement. |
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| **Performance Baseline Validation EIR** | [ ]  *Completed* [x]  *N/A* *Date to Complete* | HFT is below $20M threshold requirement. |
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| **Independent Cost Estimate or Review** | [ ]  *Completed* [x]  *N/A**Date to Complete* | HFT is below $20M threshold requirement. |
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| **Quality Assurance Program** | [x]  *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* [x]  *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 [x]*  *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* [x]  *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* [x]  *N/A* *Date to Complete* | Not a HazCat 1, 2 or 3 nuclear facility |
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| **Preliminary Sustainable Environmental Stewardship** | [ ]  *Completed* [x]  *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* [x]  *N/A**Date to Complete* | Not a HazCat 1, 2 or 3 nuclear facility |
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| **Safety Evaluation Report** | [ ]  *Completed* [x]  *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* [x]  *N/A* *Date to Complete* |  Project Safety Health Plan is submitted to DOE for approval. |
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