**Instructions:** 1. Provide detailed attachments as appropriate and check the box to indicate a document is attached.

**Section A**

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| **Origination** (ddMonyy) (type in expandable field) 31Mar20 | **PCR title**: EMCal Powder placed contract delivery schedule: TPC SAMPA placed contract updates. |
| **WBS No**(s) 1.2.5.3; 1.3.1.3 |
| **Type of change** (Check all that apply; give details in Section B.)  **Technical**  **Schedule**  **Cost**  **Administrative**  **Use of contingency funds?** Y N | **Directed change?** Y  **Brief reason for change:**  **Level of change** (Level affects signatures needed in Concurrence… section.)  **3**  **2**  **1**  Project Levels  If this PCR requires a phased implementation, check here. |
| **Exception to the 2-month PCR freeze period:**  **1 - Contracts and POs should be allowed without this restriction [ ]**  **2 - Vendor Contract/PO awards [ ]**  **3 - Scope omissions [ ]**  **4 - Customer approved changes [ ]** | |

**Section B**

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| **Summary of change:** EMCal Production Part 2 WPowder delivery change based on placed contract; EMCal block production contract labor cost increase based on placed contract; TPC SAMPA chip schedule updates based on placed contract  Attachments? Y |

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| **Technical change**  Description (include interfaces with other elements)           Attachments? Y |

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| **Detailed cost estimate with basis for estimate**  Description with basis        Total change in $K          Attachments? Y |

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| **Cost baseline impact** Orig. cost, $K 22,132.9 Est. revised, $K 22,193.8 Est. change, $K 60.9 **Final budgeted cost, $K 22,193.8** |

Description       Attachments? Y  EAC or Risk ID # 

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| **Schedule impact**       Attachments? Y |

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| **Administrative impact** Labor costs  Material costs  Changes WBS dictionary? Y  N  if Y, highest **WBS** **level** affected: 4  3  2 |

Major(>$25K) procurement  Description        Documentation update required? Y  N          Attachments? Y 

**Section C**

**Funding source and impacts on funding and contracts**  MIE Contingency ($K)

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|  | Before: | $ 4,867.1 |
| This requisition: | $ (60.9) |
| New net: | $ 4,806.2 |

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| **MIE Cost Baseline in $K** | |  | FY19 | FY20 | | FY21 | FY22 | | FY23 | TOTAL |
| **Baseline Proposed Change (BCWS)** | |  |  | $21,0 | | $39.9 |  | |  | 60.9 |
| **Total Project Cost (TPC) in $K** | Baseline DOE PCR | | | | Change | | | Proposed Baseline PCR | | |
|  |  | | | |  | | |  | | |
| **WBS 1.1 sPHENIX Project Management** | $1,951.7 | | | |  | | | $1,951.7 | | |
| **WBS 1.2 sPHENIX Time Projection Chamber** | $4,169.6 | | | |  | | | $4,169.6 | | |
| **WBS 1.3 sPHENIX EMCal** | $5,196.1 | | | | $60.9 | | | $5,257.0 | | |
| **WBS 1.4 sPHENIX HCal** | $4,032 | | | |  | | | $4,032 | | |
| **WBS 1.5 sPHENIX Calorimeter Electronics** | $5,373.2 | | | |  | | | $5,373.2 | | |
| **WBS 1.6 sPHENIX DAQ & Trigger** | $1,240.2 | | | |  | | | $1,240.2 | | |
| **WBS 1.7 sPHENIX MinBias Trigger Detector** | $170.1 | | | |  | | | $170.1 | | |
| **Total Cost** | $22,132.9 | | | | $60.9 | | | $22,193.8 | | |
| **MIE Contingency** | $4,867.1 | | | | ($60.9) | | | 4,806.2 | | |
| **Total Project Costs** | $27,000.0 | | | |  | | | $27,000.0 | | |
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**Concurrence and approvals**

The originator’s name should be typed in the space provided (27-character limit).

A Level 4 PCR requires concurrence of (sPHENIX Project Controls Manager), and approval from the SPHENIX Project Manager.

A Level 3 PCR requires concurrence of (sPHENIX Project Controls Manager, sPHENIX Resource Coordinator, sPHENIX Project Manager) and approval from the SPHENIX Project Director.

A Level 2 PCR requires concurrence of (sPHENIX Project Controls Manager, sPHENIX Resource Coordinator, sPHENIX Project Manager, sPHENIX Project Director) and approval from the Associate Lab Director NPP.

A Level 1 PCR requires all previous concurrence of (sPHENIX Project Controls Manager, sPHENIX Resource Coordinator, sPHENIX Project Manager, sPHENIX Project Director, Associate Lab Director NPP) and approval from the Lab Director.

A Level 1 PCR requires Level 1 concurrences and approval and in addition approval of the DOE Program Office and BHSO Official(s) named below.

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| **Originator/CAM** |  | Craig Woody & Tom Hemmick |  |
| **SPHENIX Level 2 Manager** |  | Craig Woody & Tom Hemmick |  |
| **SPHENIX Project Controls Manager** |  | Irina Sourikova |  |
| **sPHENIX Resource Coordinator** |  | Cathleen Lavelle |  |
| **SPHENIX Project Manager** |  | Glenn Young |  |
| **sPHENIX Project Director** |  | Ed O’Brien |  |
| **Associate Lab Director NPP** |  | Berndt Mueller |  |
| **Lab Director** |  | Doon Gibbs |  |

Official’s typed name Signature Date (ddMonyy)

|  |  |  |  |  |  |  |
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| **Level 1 Change**  DOE/SC Change Action |  |  |  |  |  |  |

Brookhaven Site Office (BHSO)

|  |  |  |  |  |  |  |
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| **Level 1 Change**  DOE/SC Change Action |  |  |  |  |  |  |

Federal Program Manager (NP)