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

**Section A**

|  |  |
| --- | --- |
| **Origination** (ddMonyy) (type in expandable field) 29Dec20 | **PCR title**: Additional tech labor for EMCal and HCal |
| **WBS No**(s) 1.3.2.3.3, 1.4.4.2 |
| **Type of change** (Check all that apply; give details in Section B.)**Technical** **[ ]**  **Schedule** **[ ]** **Cost** **[x]**  **Administrative** **[ ]** **Use of contingency funds?** Y **[x]** N [ ]  | **Directed change?** Y **[ ]  Brief reason for change:**       **Level of change** (Level affects signatures needed in Concurrence… section.) 4 [x]  3 [ ]  **2** [ ]  **1** [ ]  Project Levels  |

**Section B**

|  |
| --- |
| **Summary of change:** Add tech labor for EMCal and HCal assembly  Attachments? Y[x]  |

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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 222    Attachments? Y [ ]  |

|  |
| --- |
| **Cost baseline impact** Orig. cost, $K 24,309.8 Est. revised, $K 24,531.4 Est. change, $K 221.5 **Final budgeted cost, $K 24,531.4** |

Description       Attachments? Y [ ]  EAC or Risk ID #

|  |
| --- |
| **Schedule impact**       Attachments? Y [ ]  |

|  |
| --- |
| **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**  Contingency ($K)

|  |  |  |  |
| --- | --- | --- | --- |
|  | Before: |  | $ 2,690.2 |
|  PCR:  |  | ($ 221.5) |
| New net: |  | $ 2,468.7 |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Cost Baseline in $K** |  | FY19 | FY20 | FY21 | FY22 | FY23 | TOTAL |
| **Baseline Proposed Change (BCWS)** |  |       |       | $204.1 | $17.4 |       | $221.5 |
| **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** | $4,702.5 |       | $4,702.5 |
| **WBS 1.3 sPHENIX EMCal** | $5,789.0 | $161.7 | $5,950.7 |
| **WBS 1.4 sPHENIX HCal** | $4,160.8 | $59.8 | $4,220.8 |
| **WBS 1.5 sPHENIX Calorimeter Electronics** | $6,290.6 |       | $6,290.6 |
| **WBS 1.6 sPHENIX DAQ & Trigger** | $1,245.1 |       | $1,245.1 |
| **WBS 1.7 sPHENIX MinBias Trigger Detector** | $170.2 |       | $170.2 |
| **Total Baseline Cost PMB** | $24,309.8 | $221.5 | $24,531.4 |
| **MIE Contingency** | $2,690.2 | ($221.5) | $2,468.7 |
| **Total Costs and Contingency** | $27,000.0 |       | $27,000.0 |

**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.

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| **Originator/CAM** |  | C. Woody, J. Lajoie |  |
| **SPHENIX Level 2 Manager** |  | C. Woody, J. Lajoie |  |
| **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 |  |